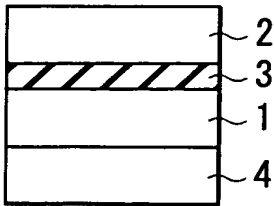
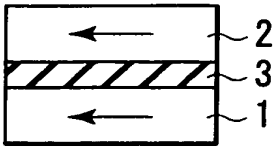


FIG. 1



PARALLEL
(SMALLER RESISTANCE)



ANTI-PARALLEL
(LARGER RESISTANCE)

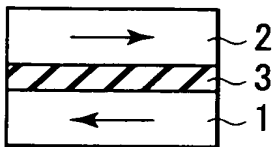


FIG. 2A

FIG. 2B

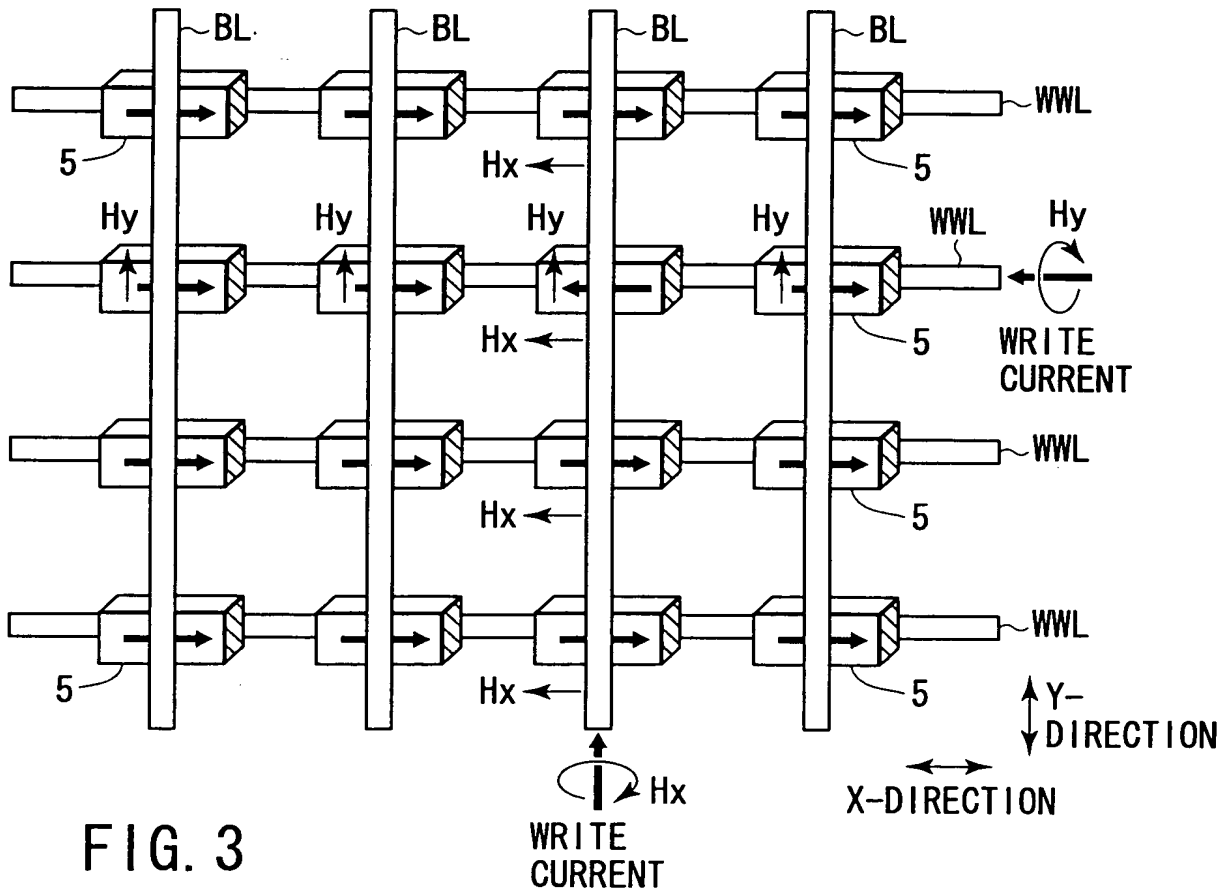
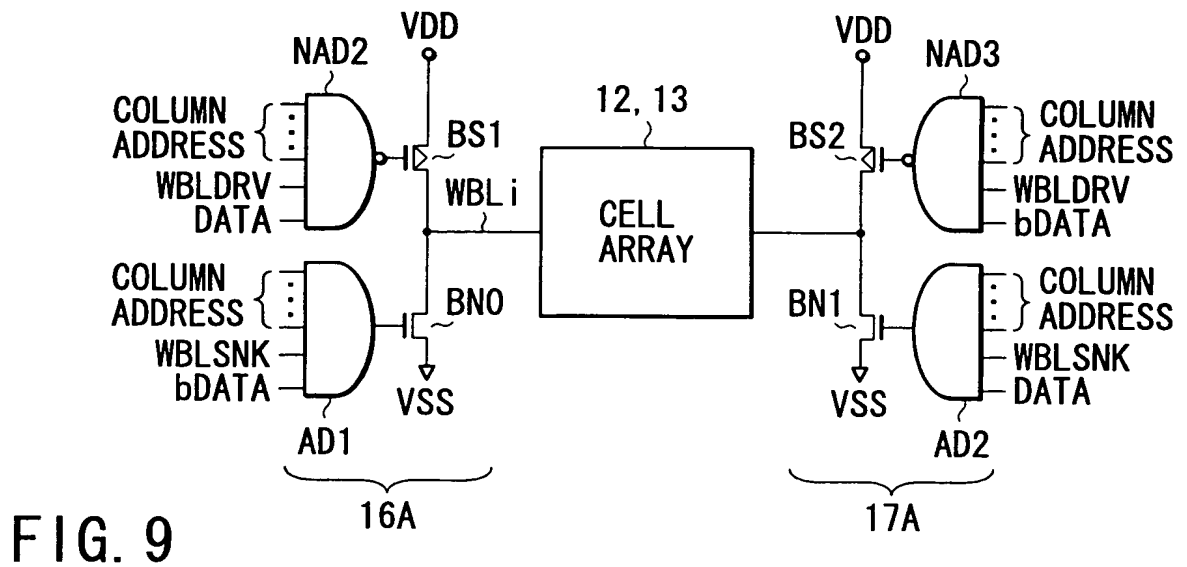
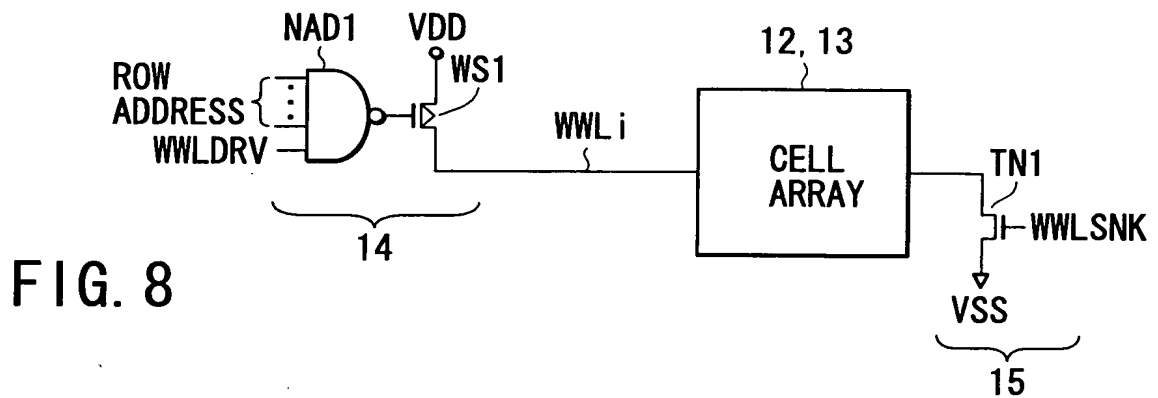
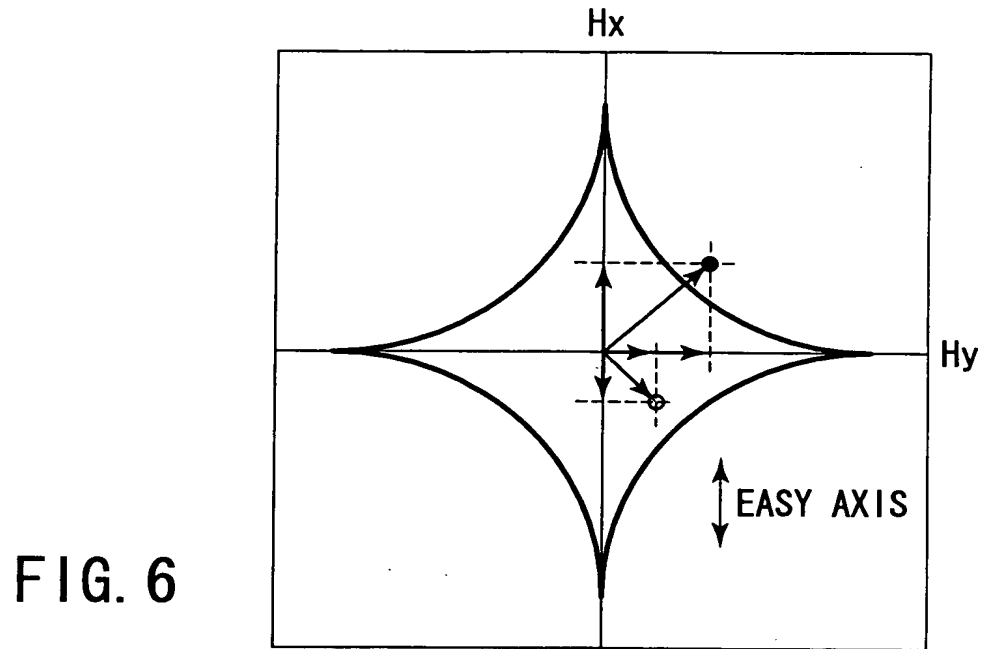
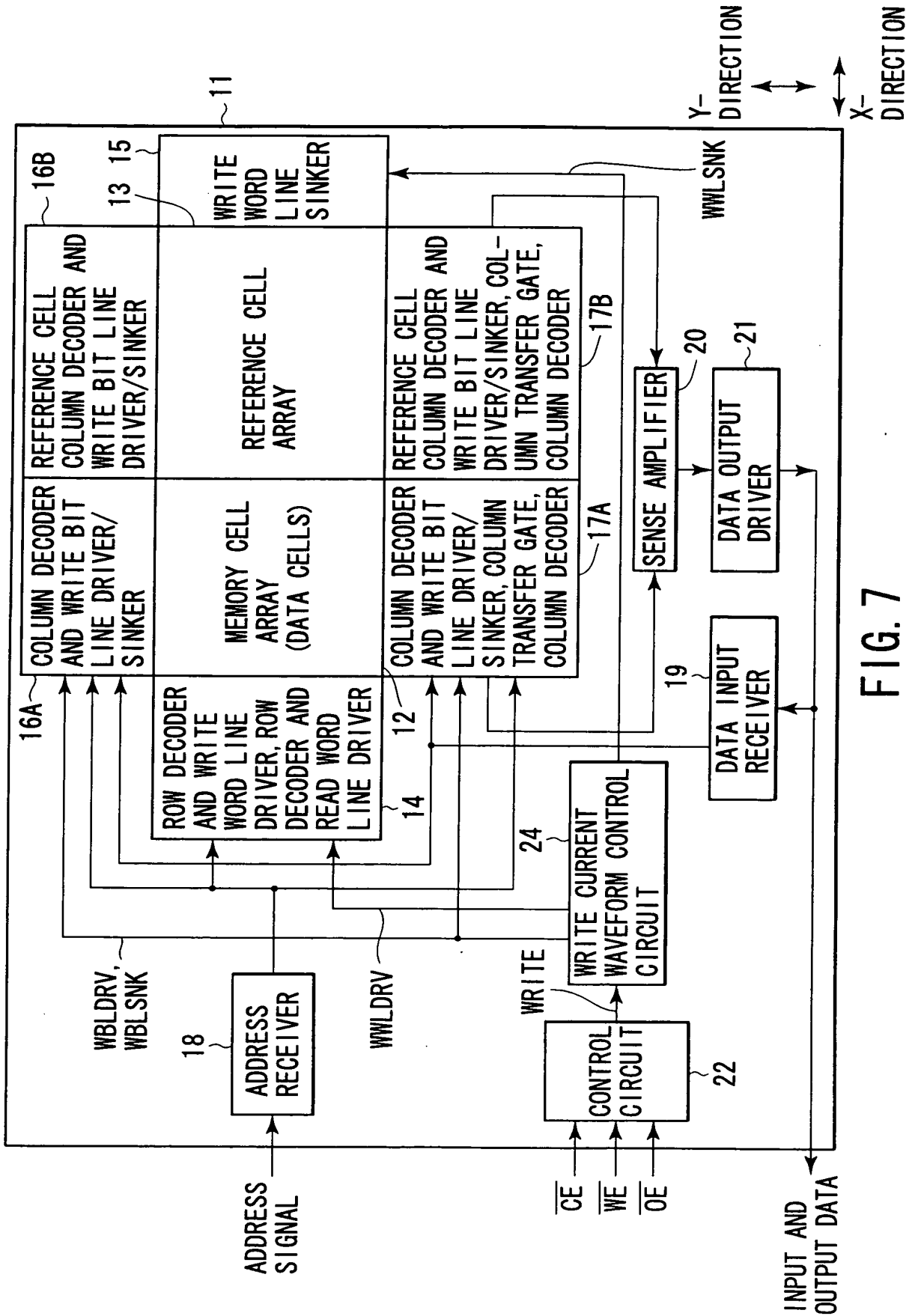


FIG. 3

FIG. 5





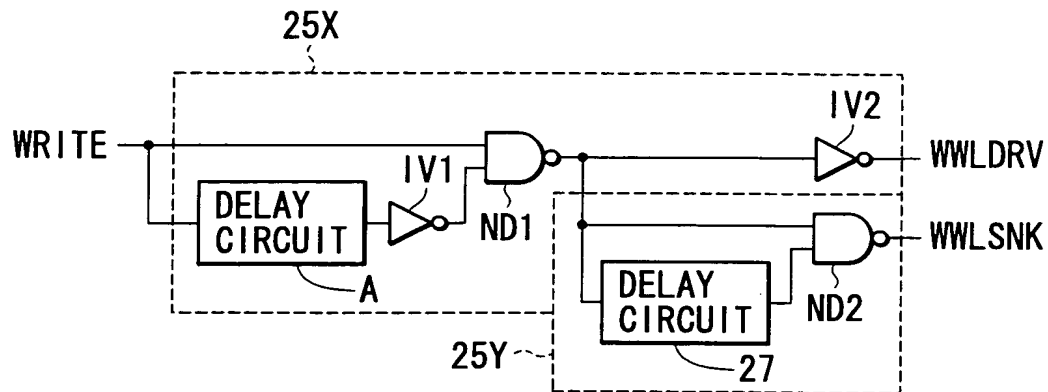


FIG. 10

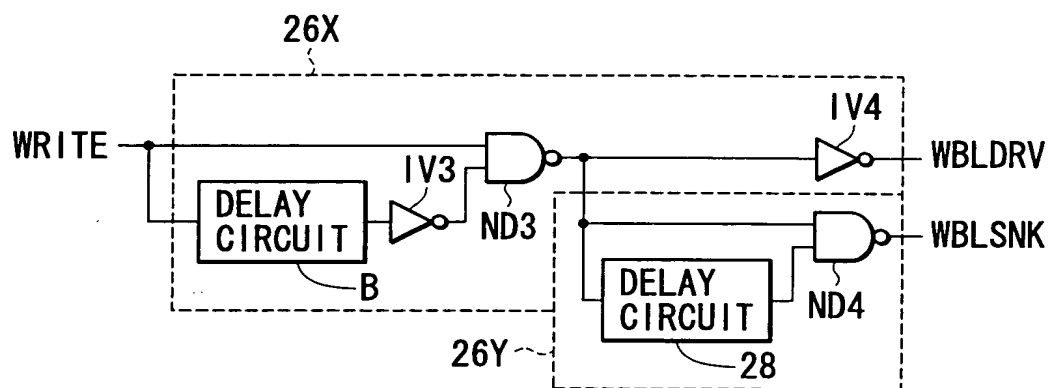


FIG. 11

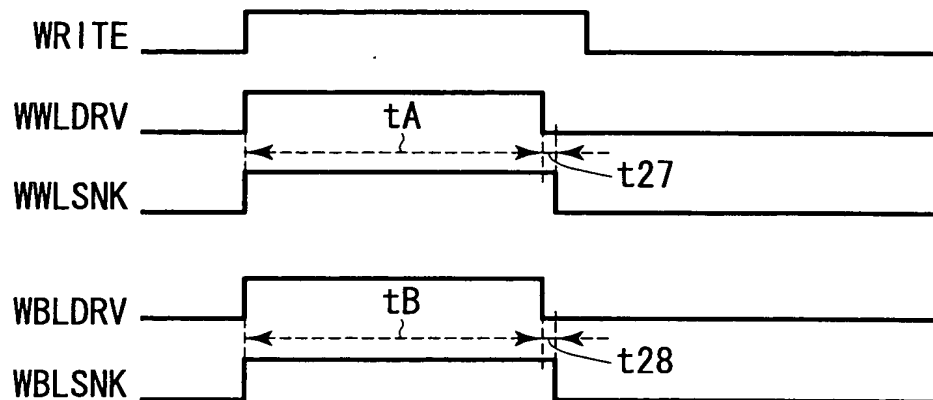
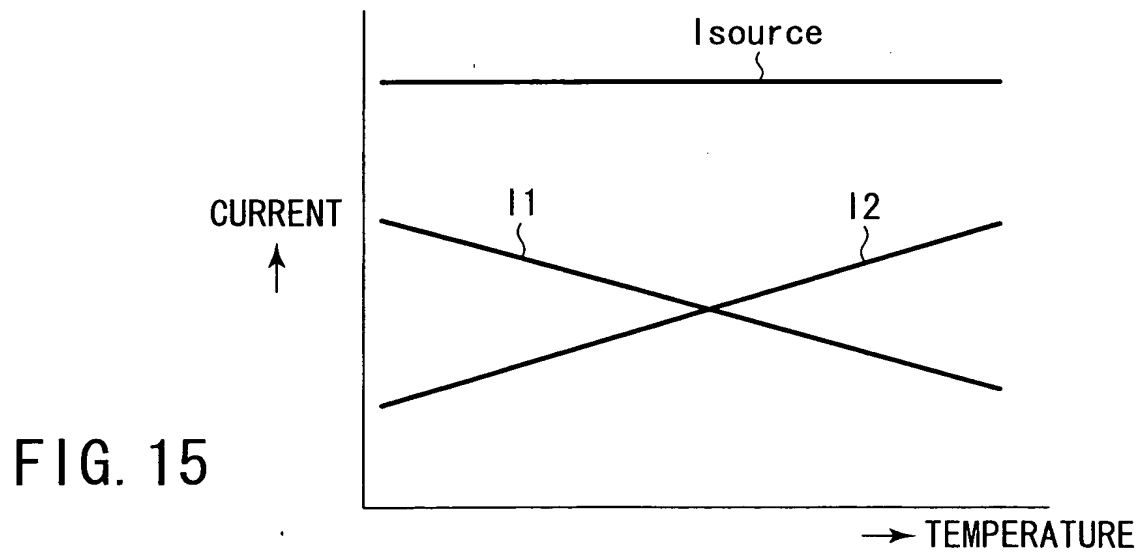
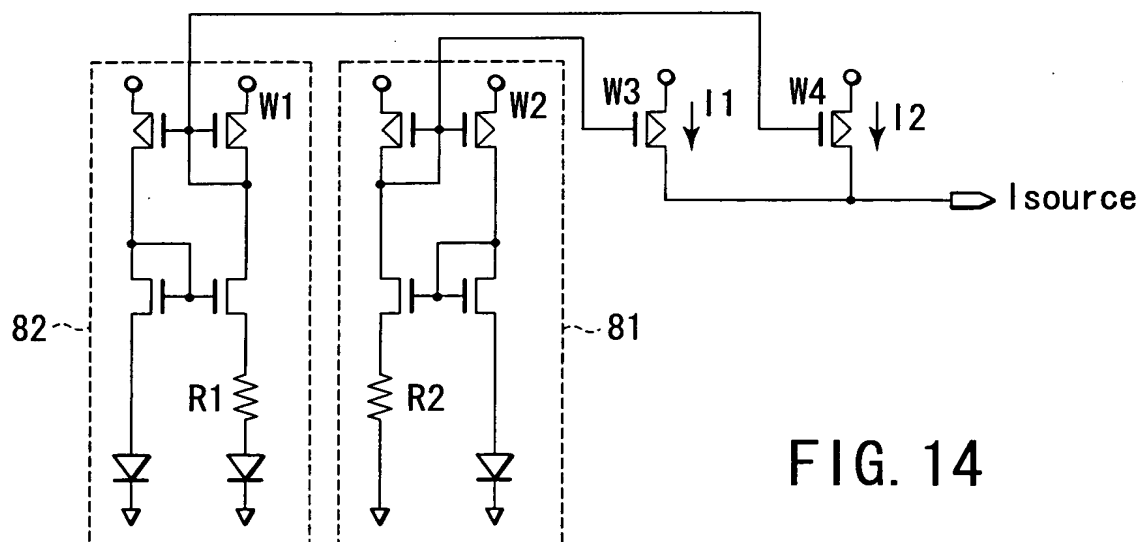
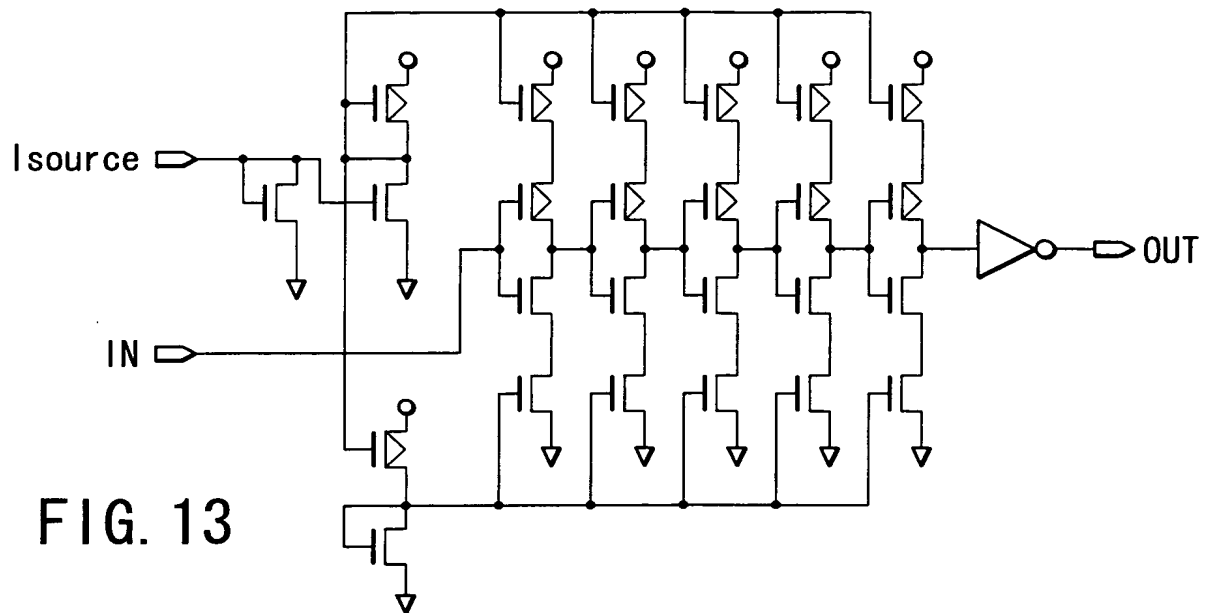


FIG. 12



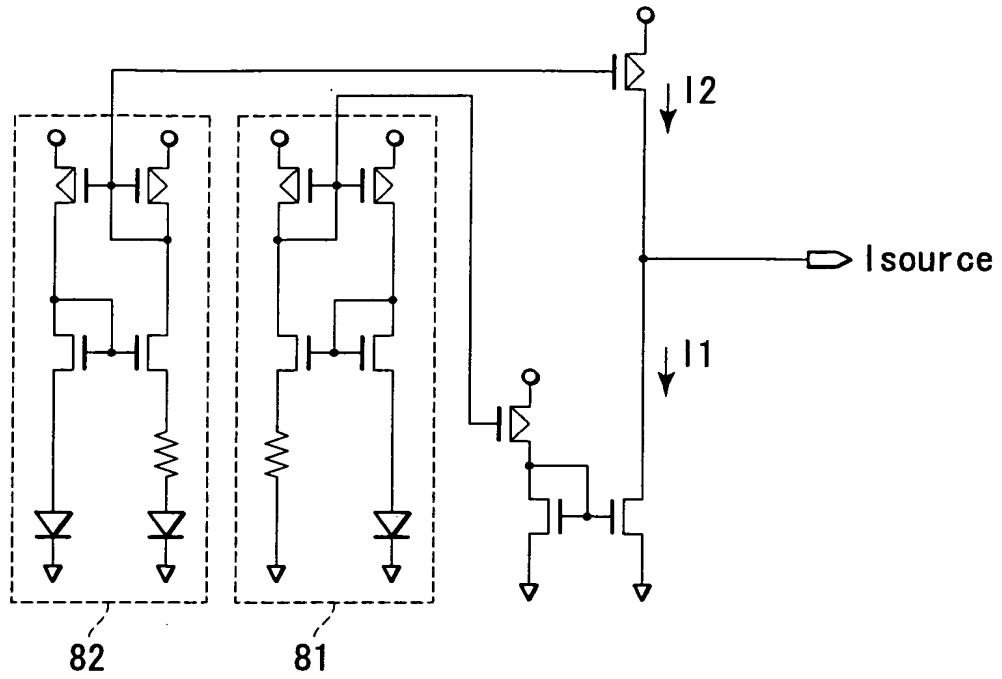


FIG. 16

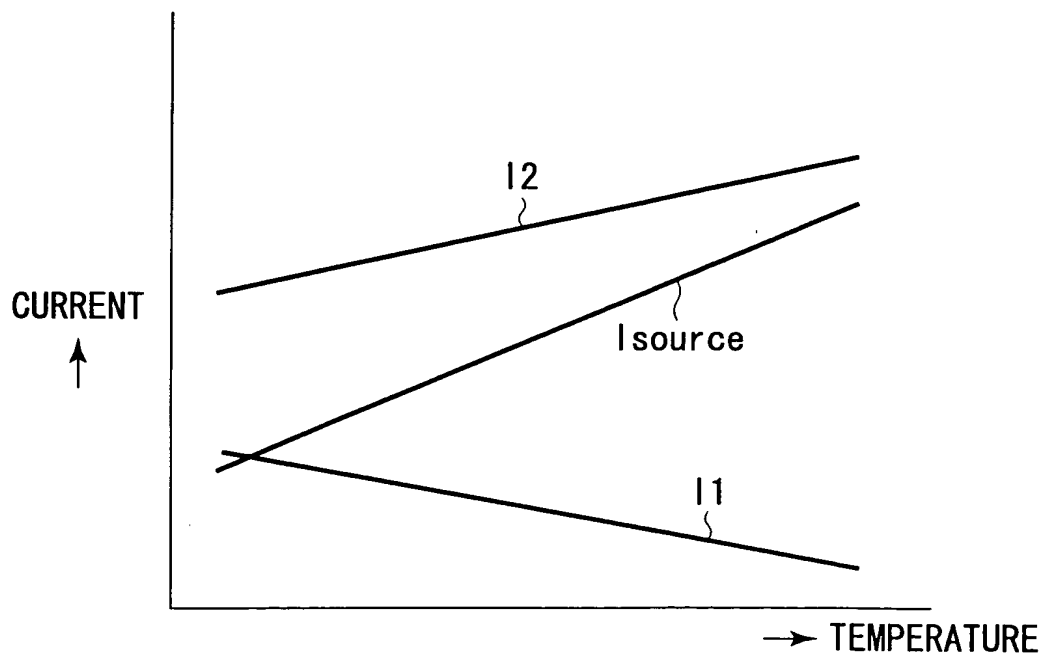


FIG. 17

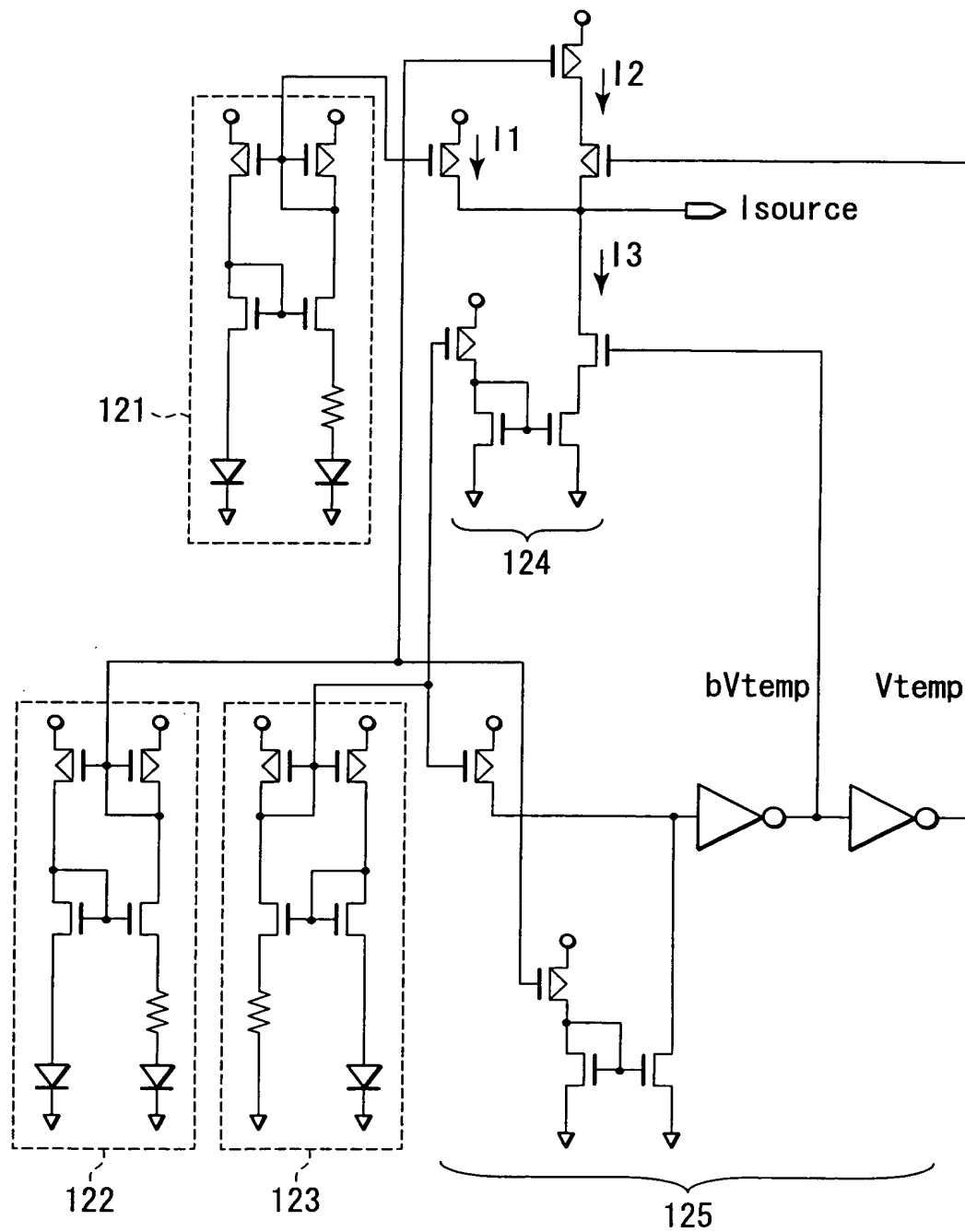
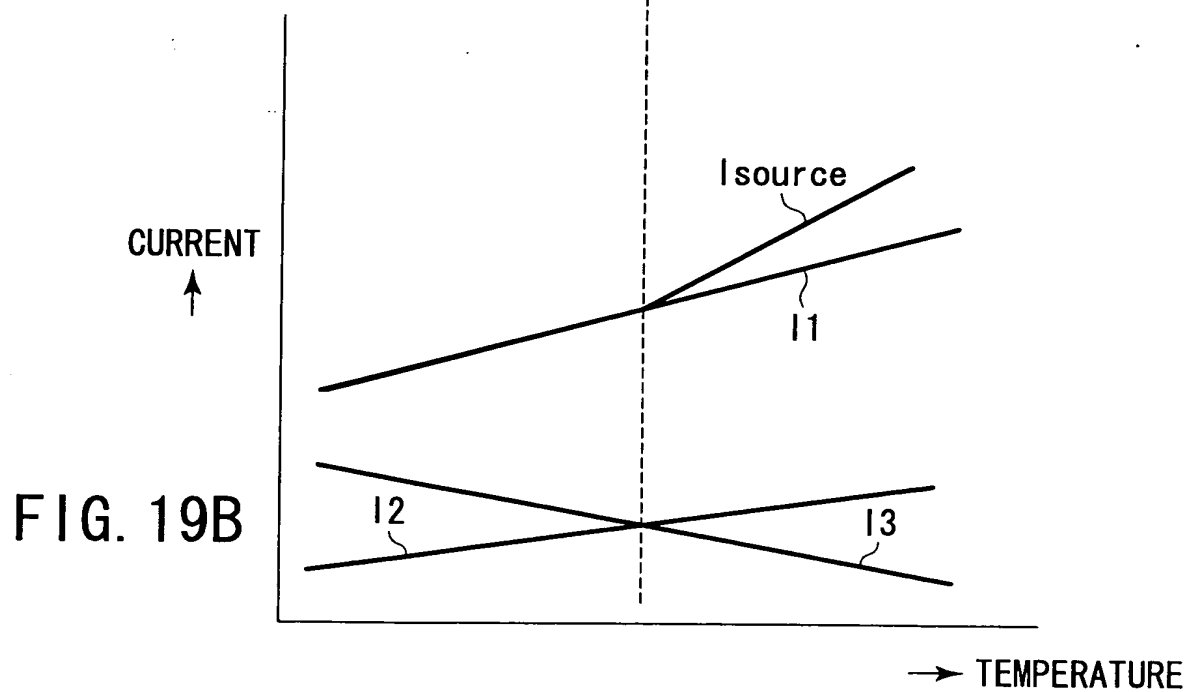
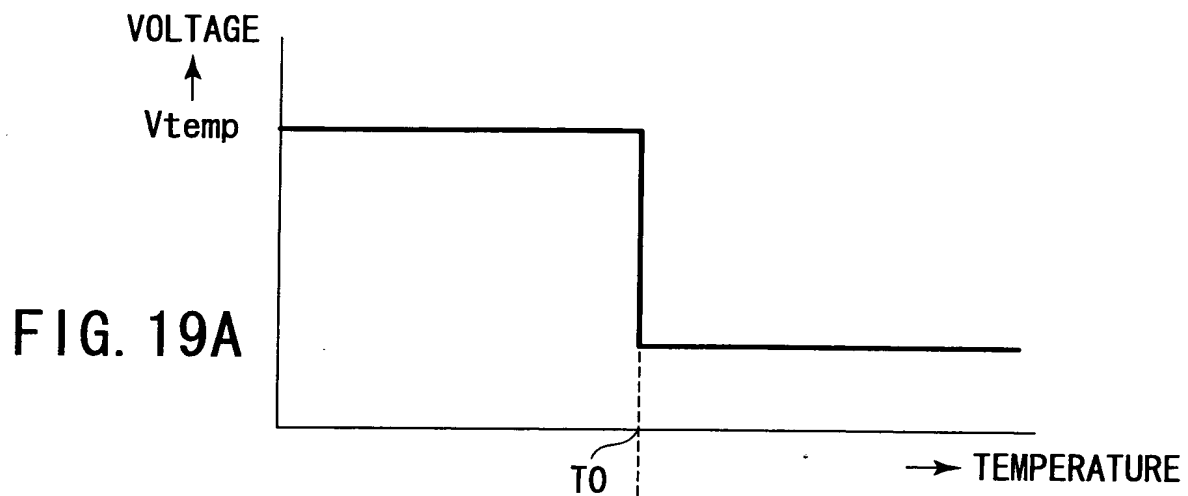


FIG. 18



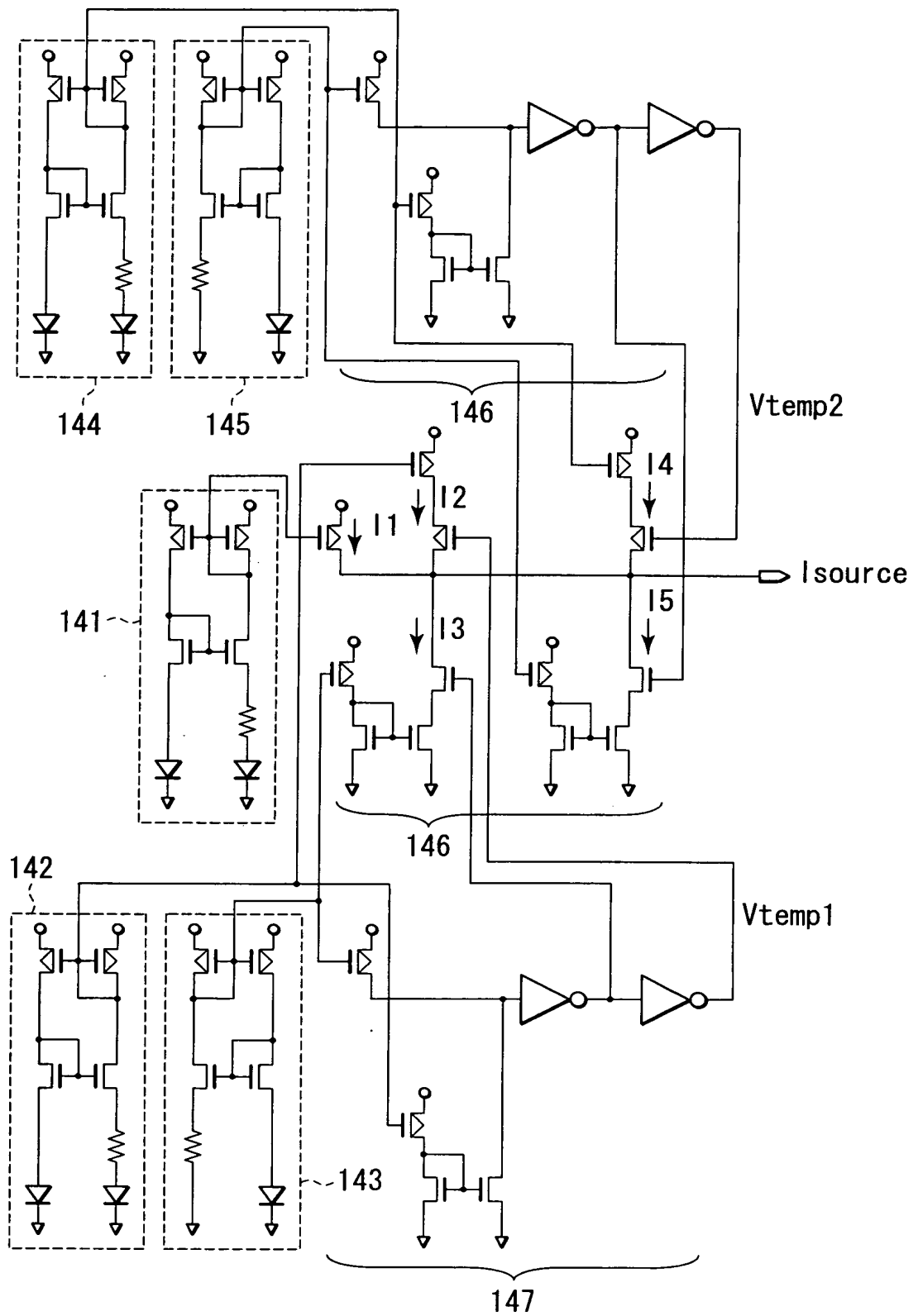
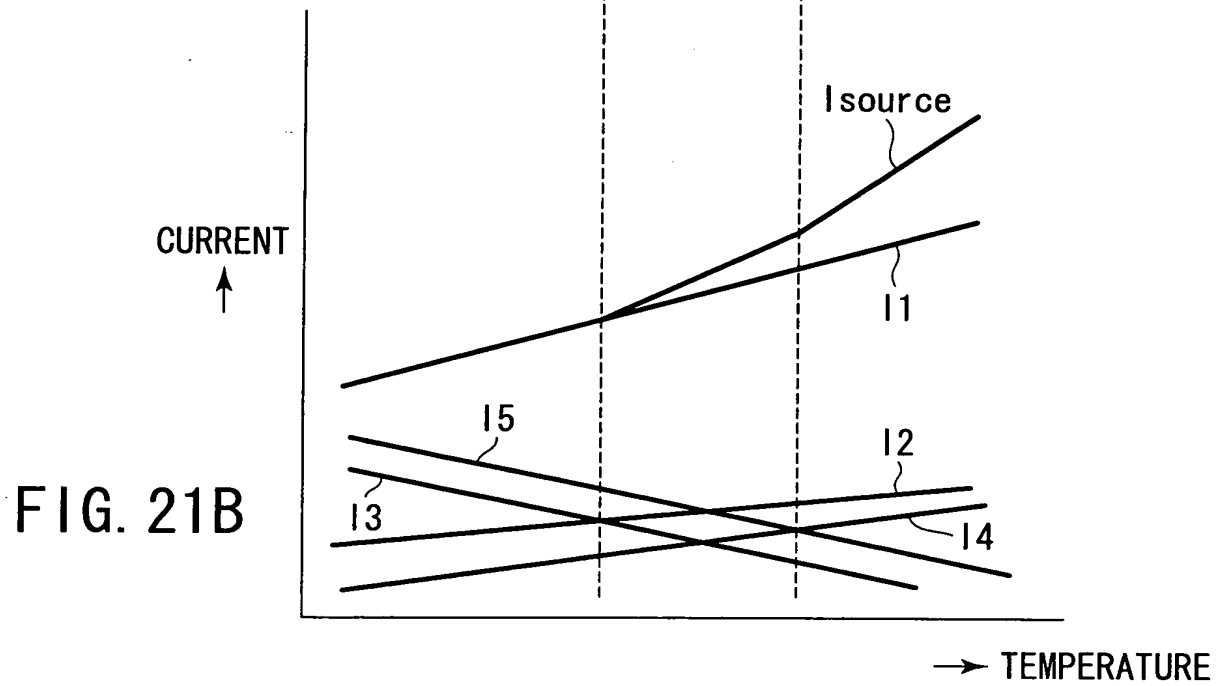
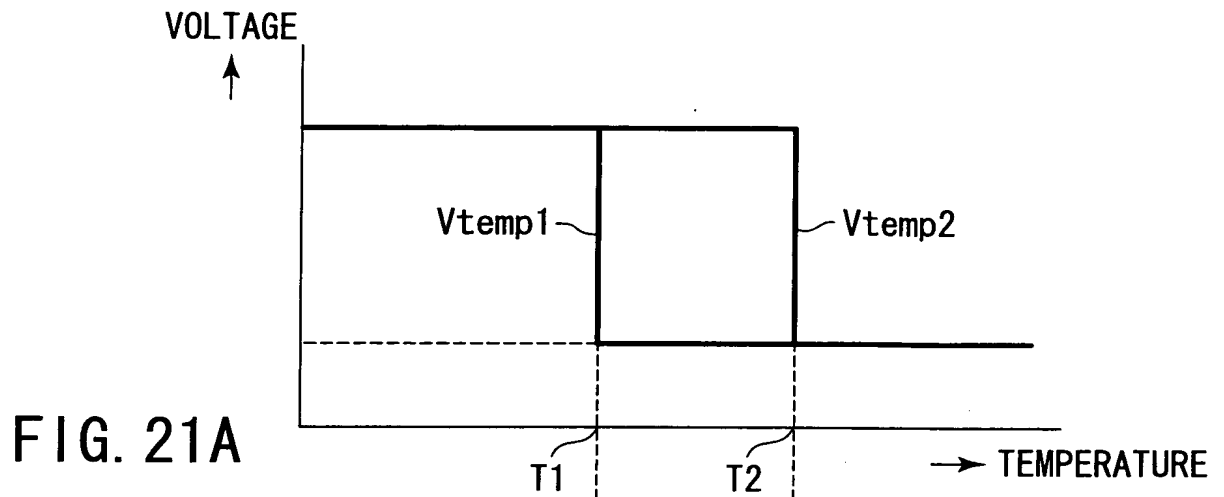


FIG. 20



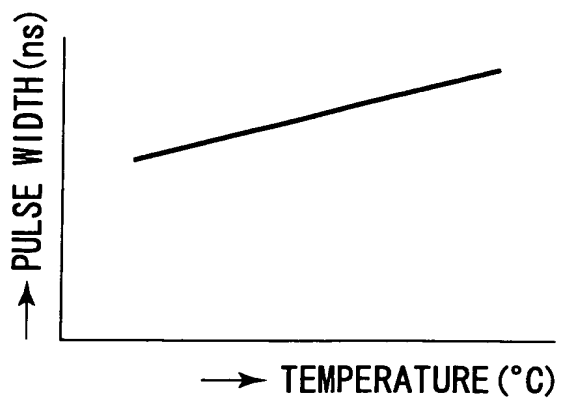


FIG. 22

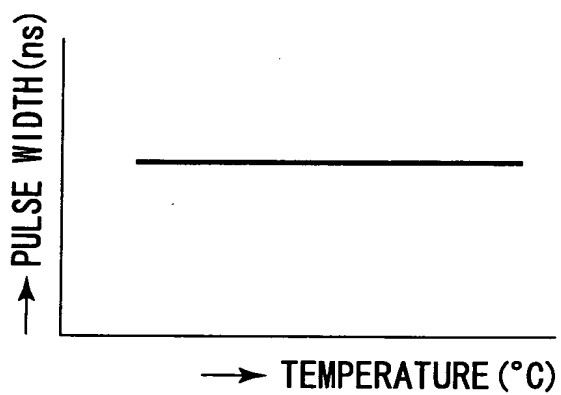


FIG. 23

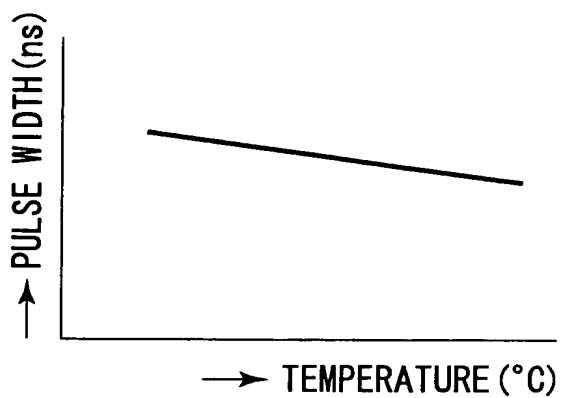


FIG. 24

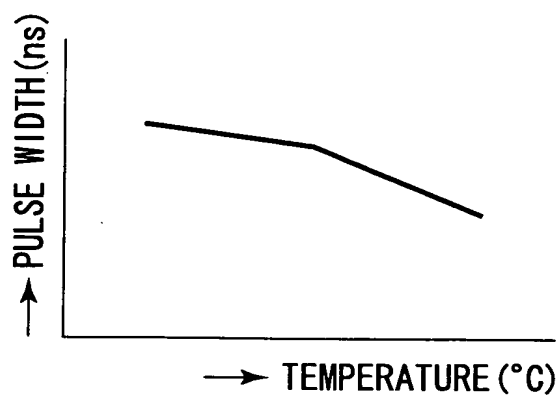


FIG. 25

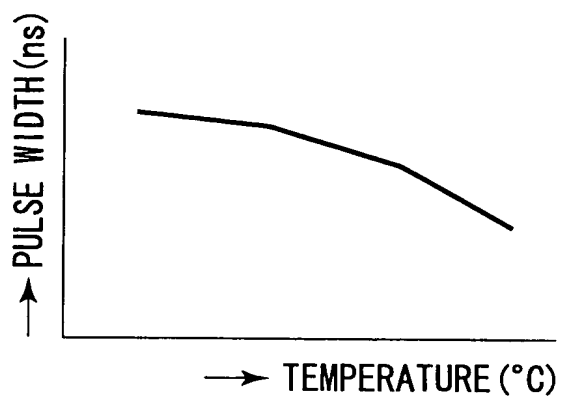
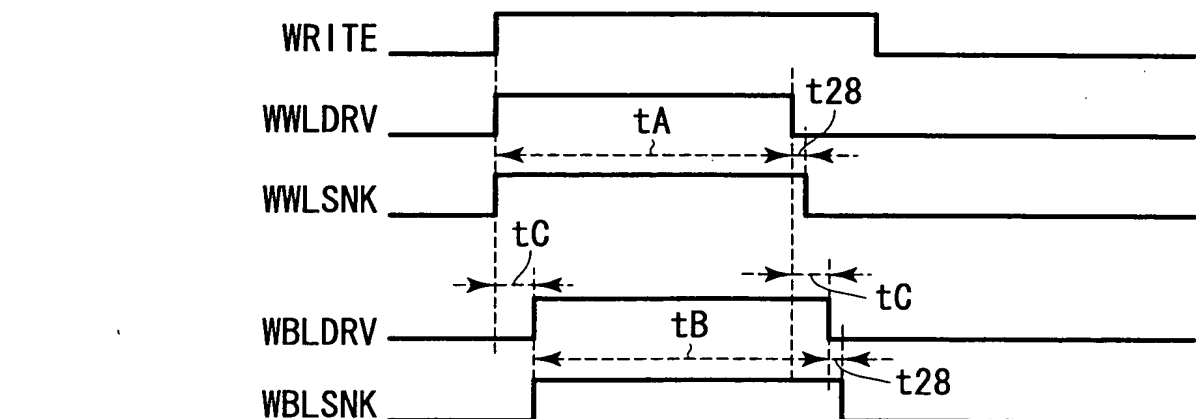
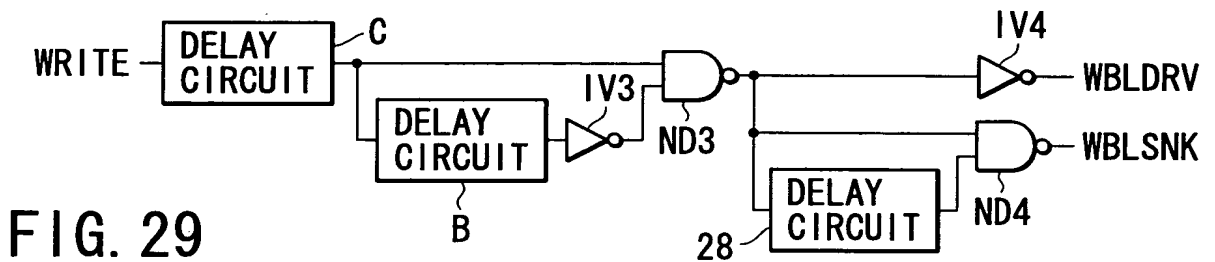
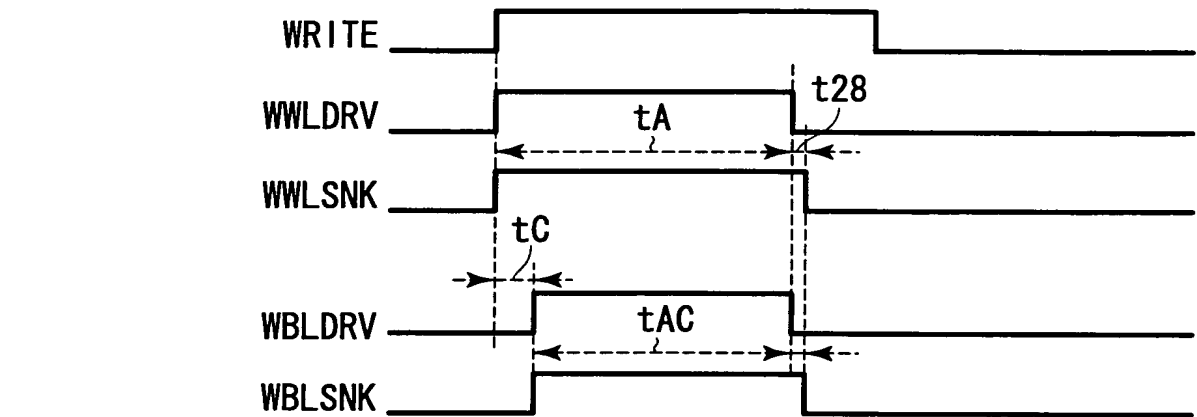
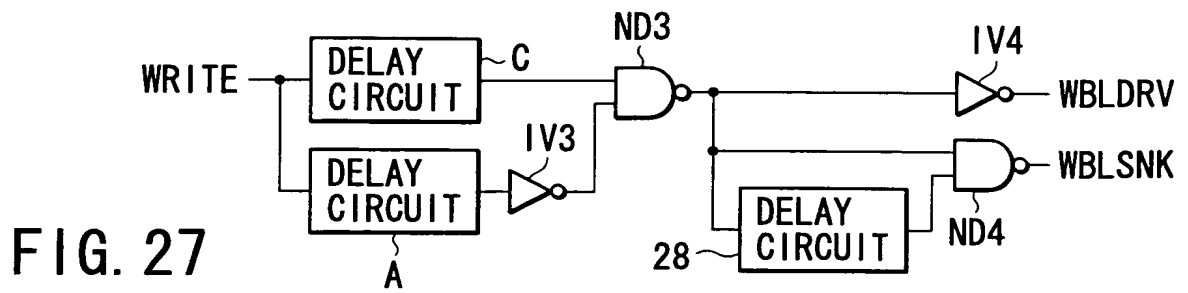
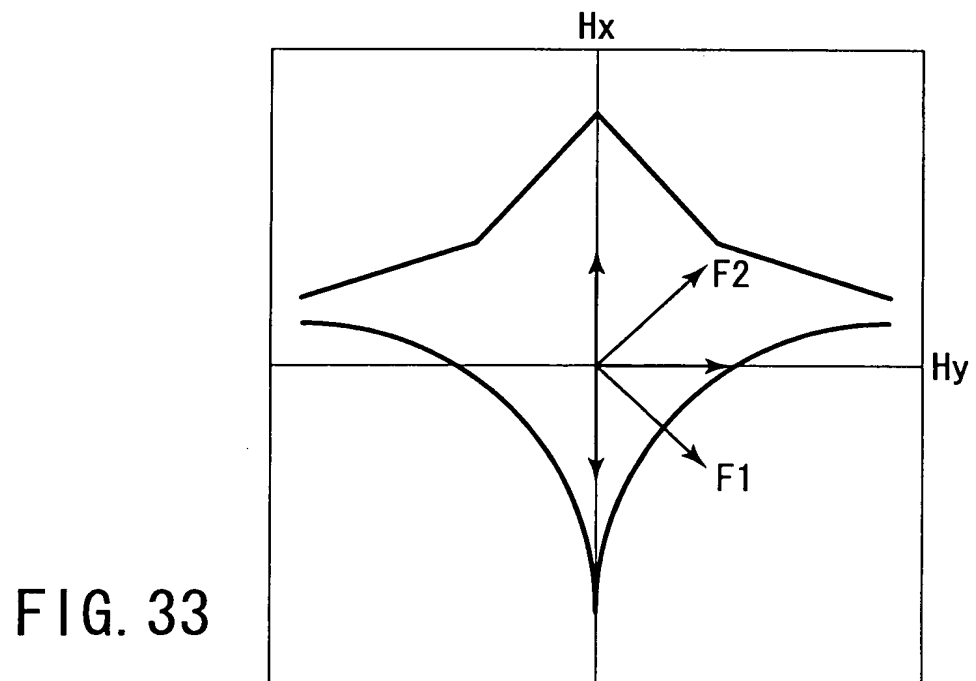
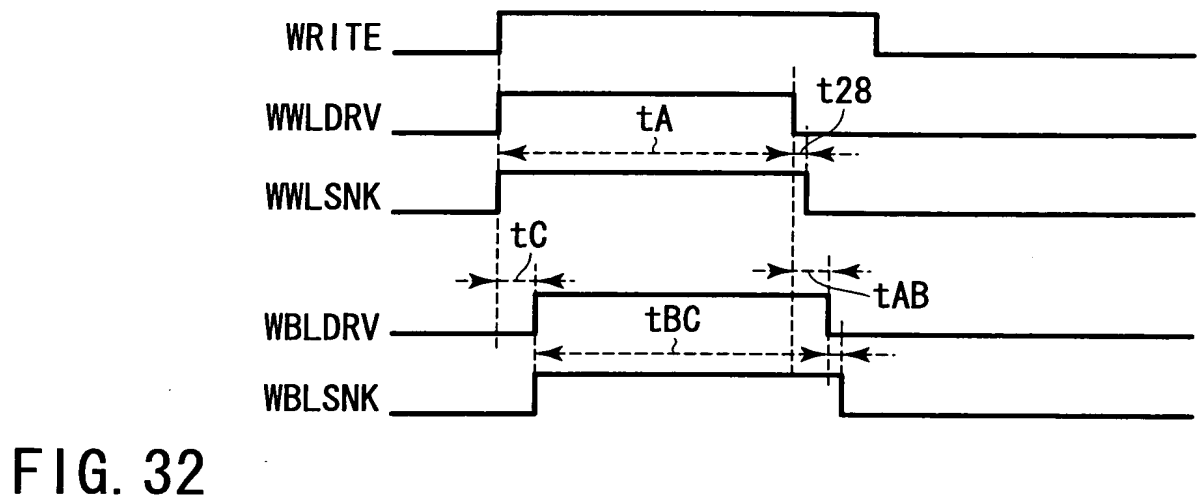
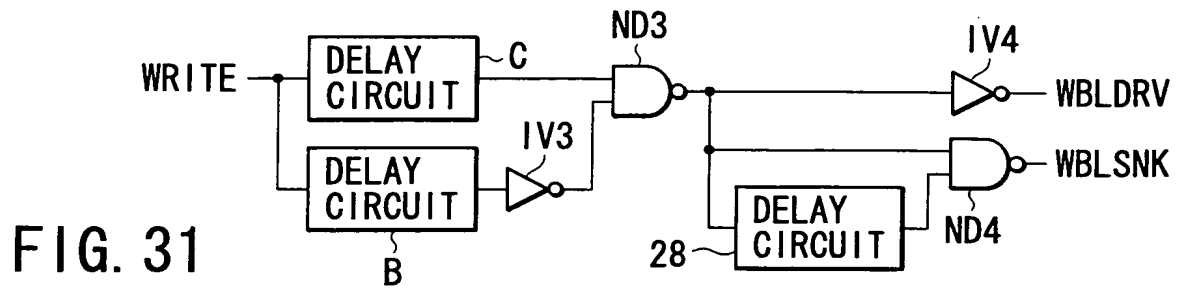


FIG. 26





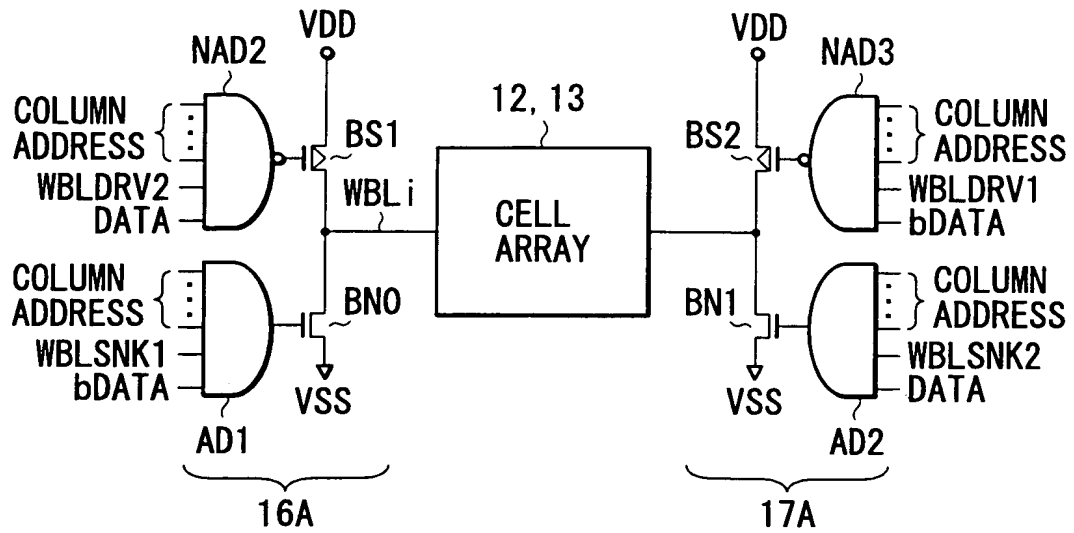


FIG. 34

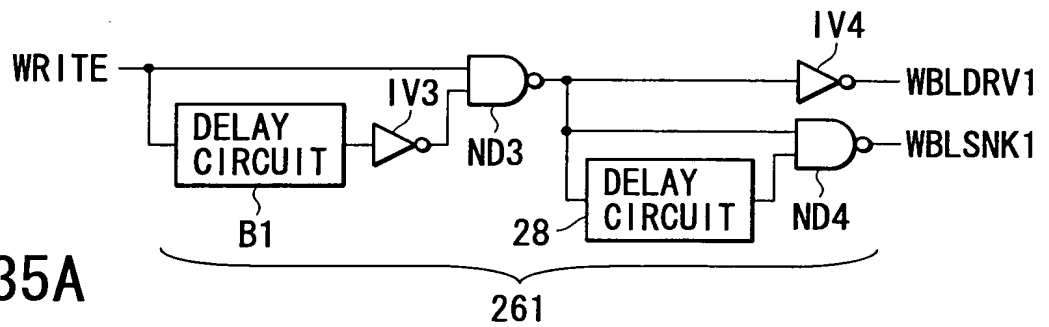


FIG. 35A

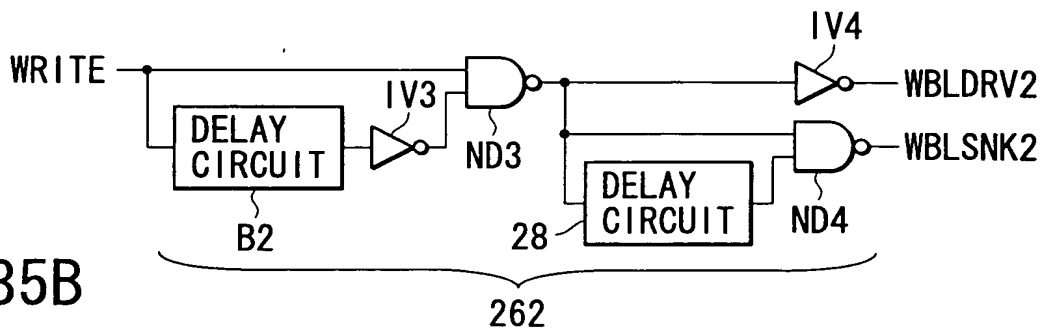


FIG. 35B

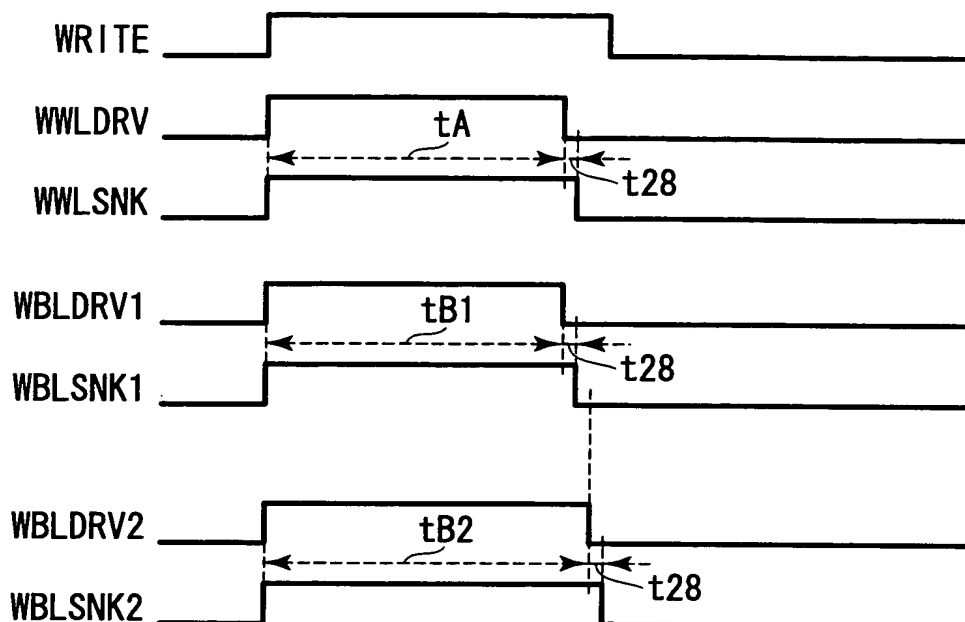


FIG. 36

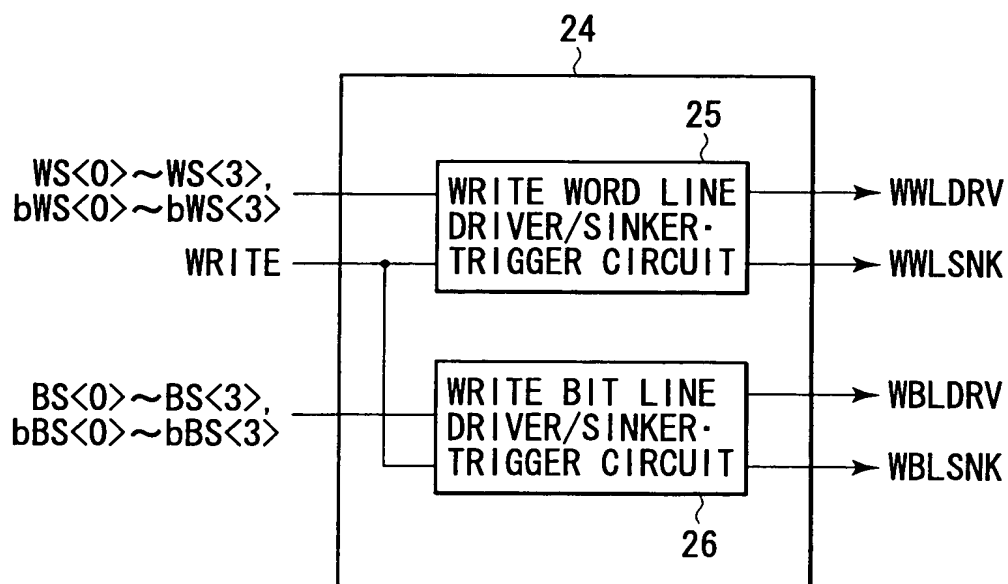


FIG. 38

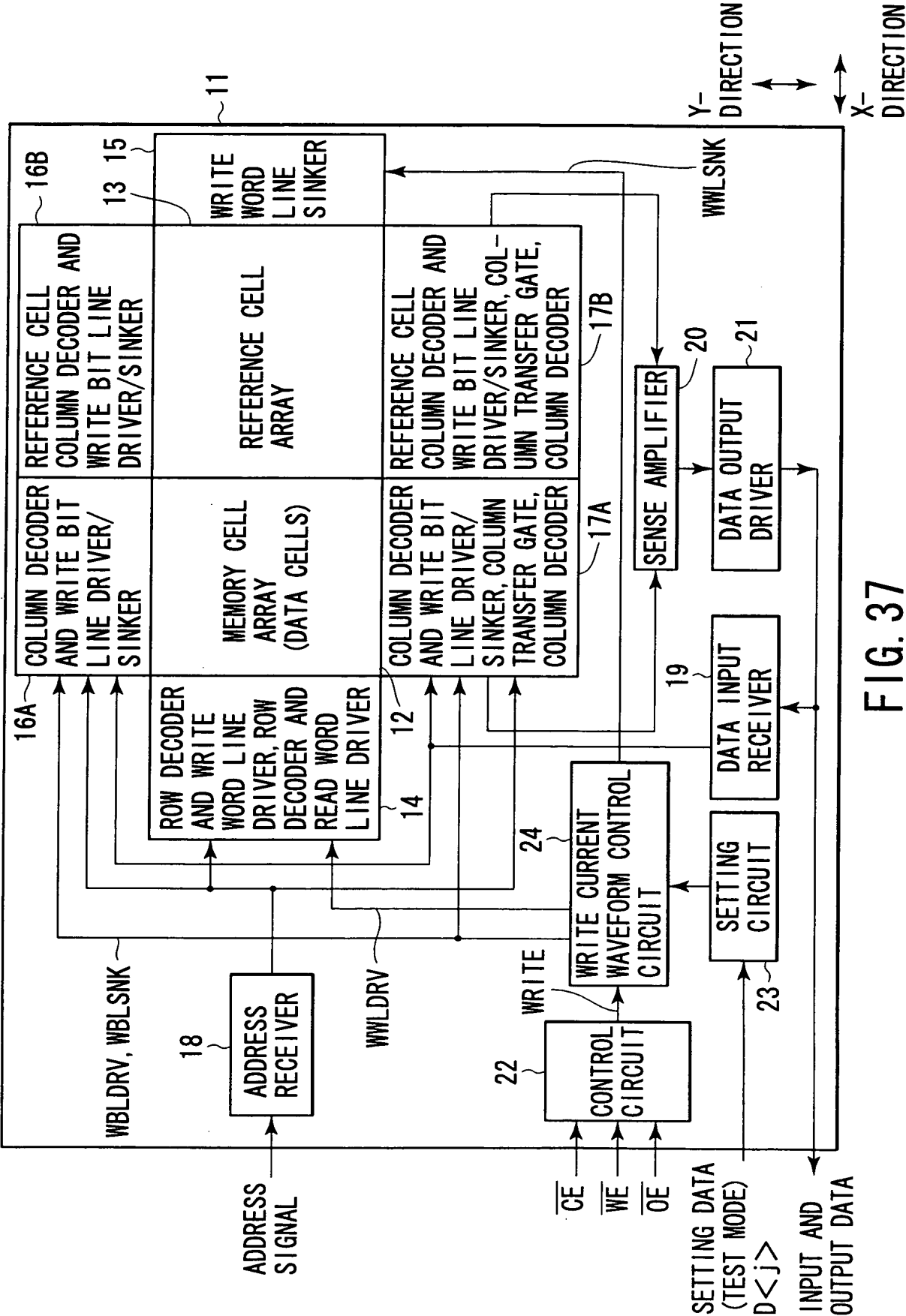


FIG. 37

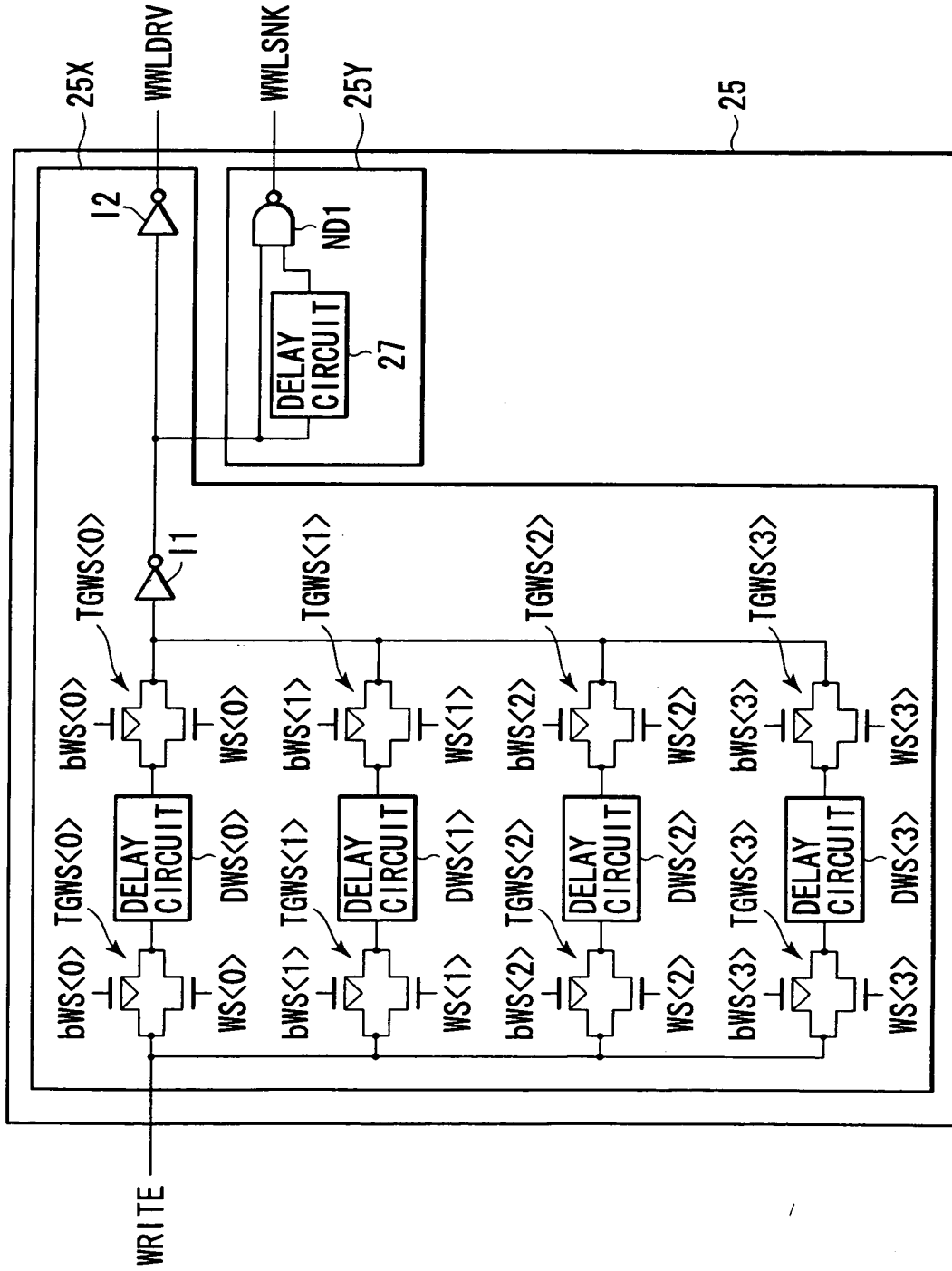


FIG. 39

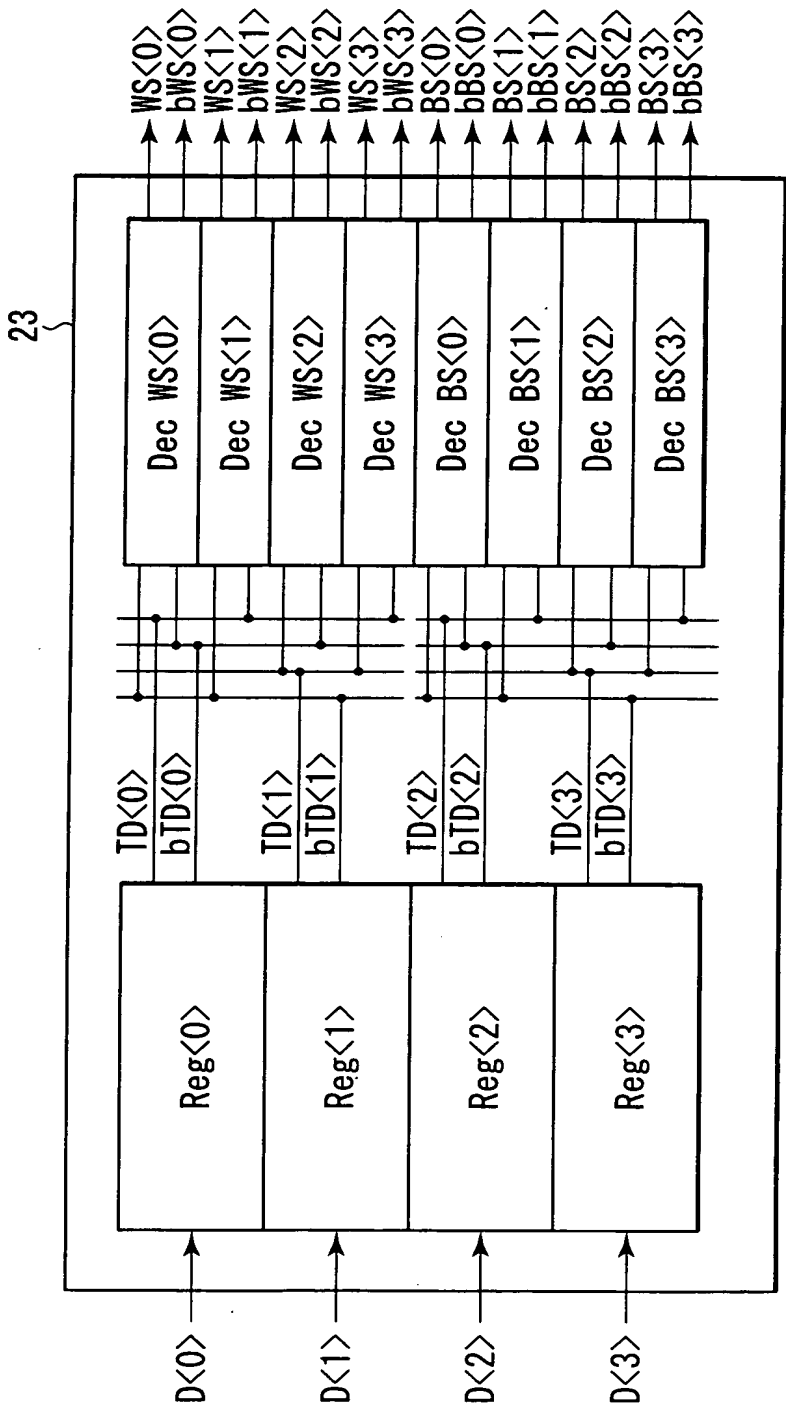


FIG. 41

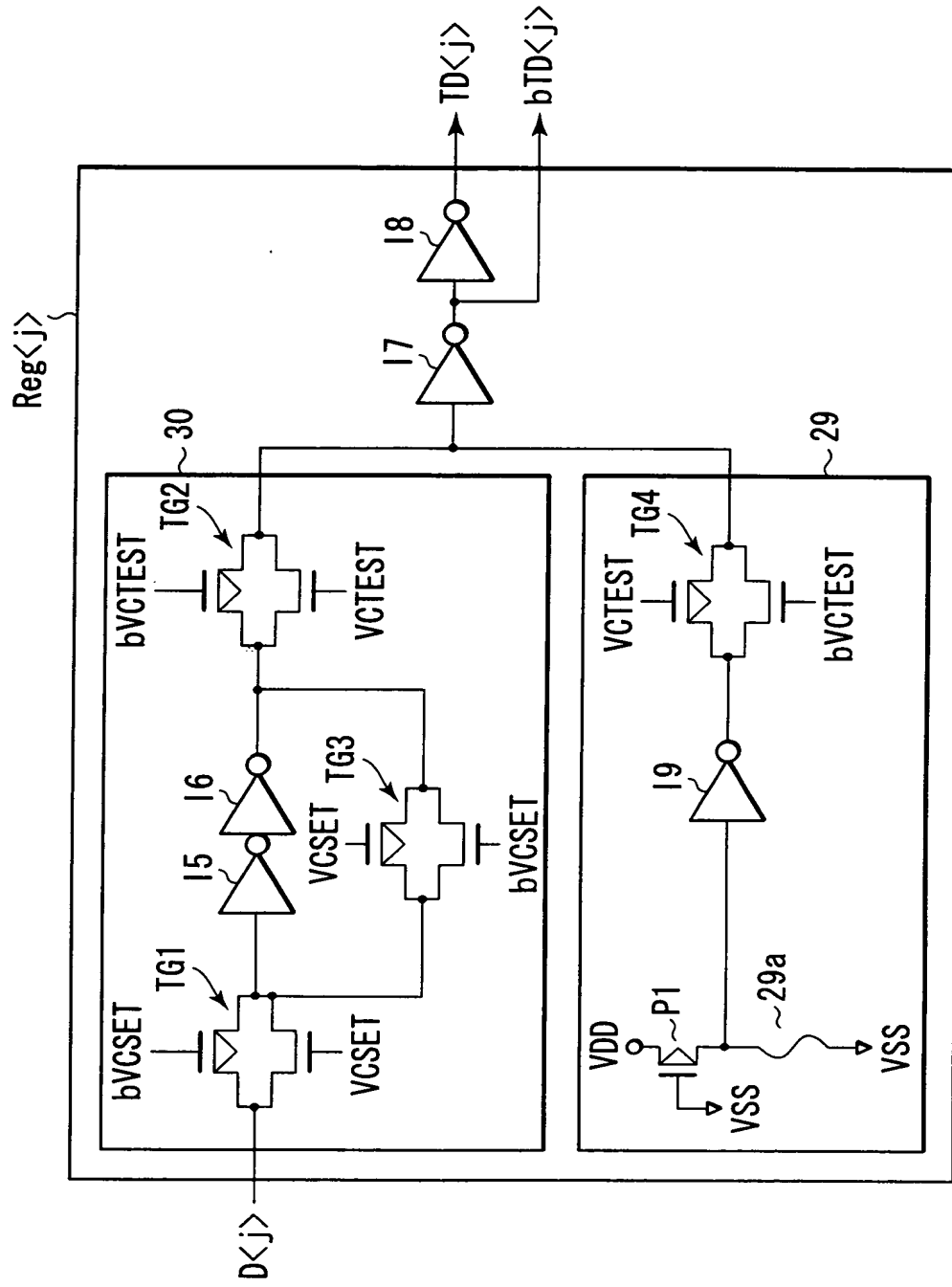


FIG. 42

FIG. 43

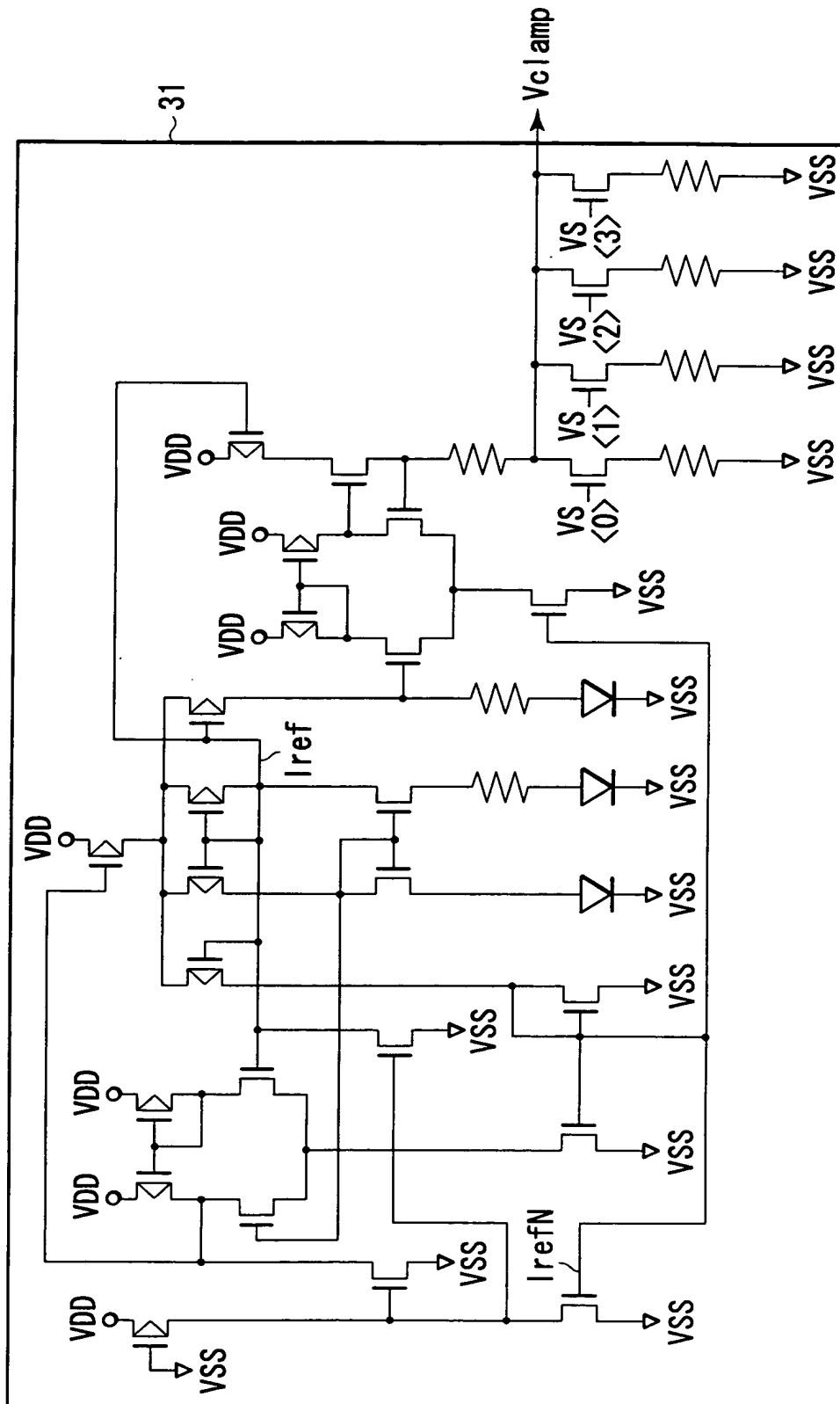


FIG. 44

FIG. 45

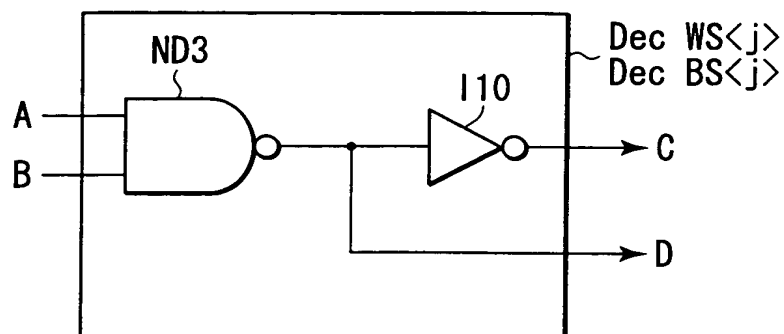


FIG. 46

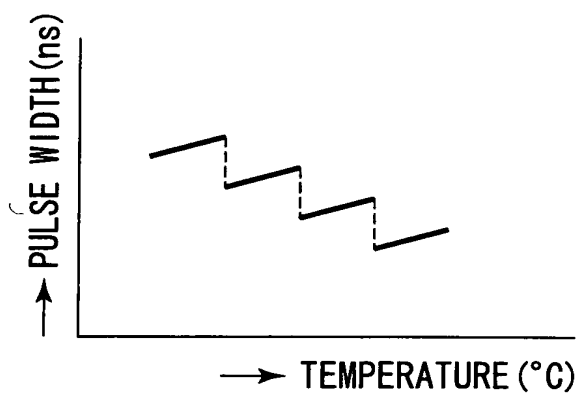


FIG. 47

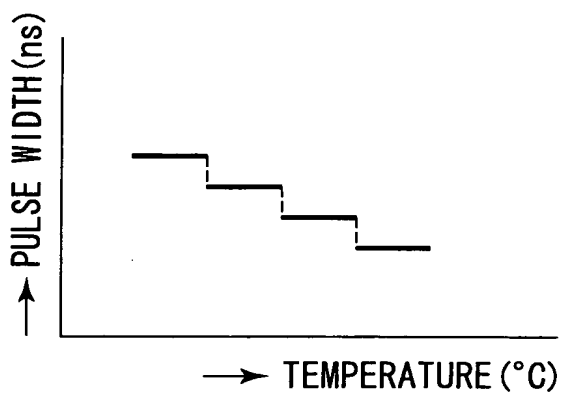
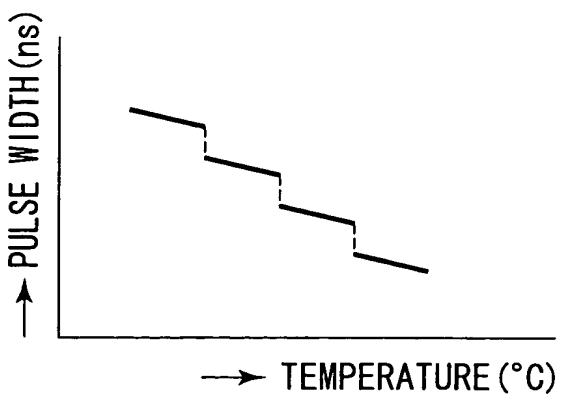


FIG. 48



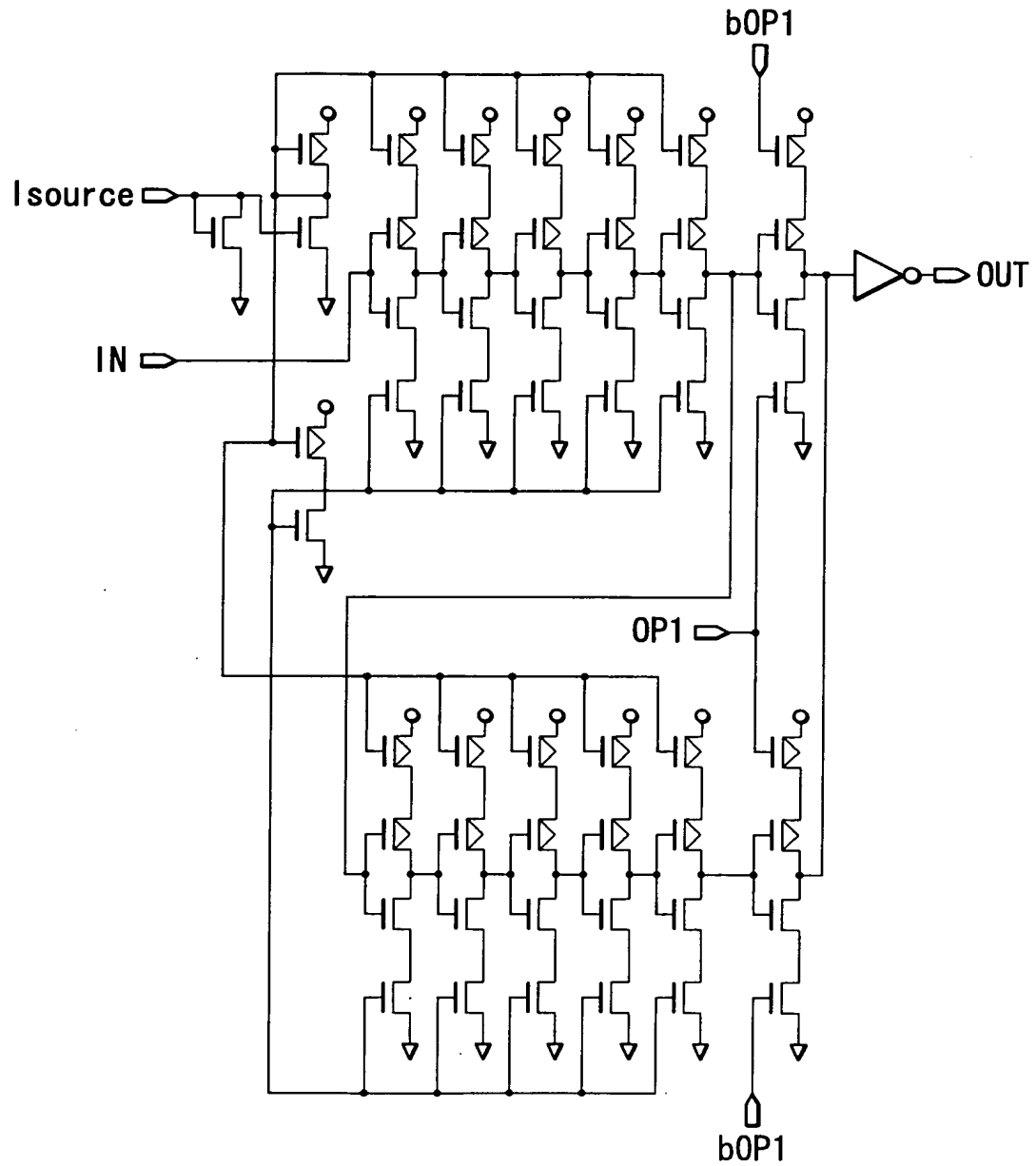


FIG. 49

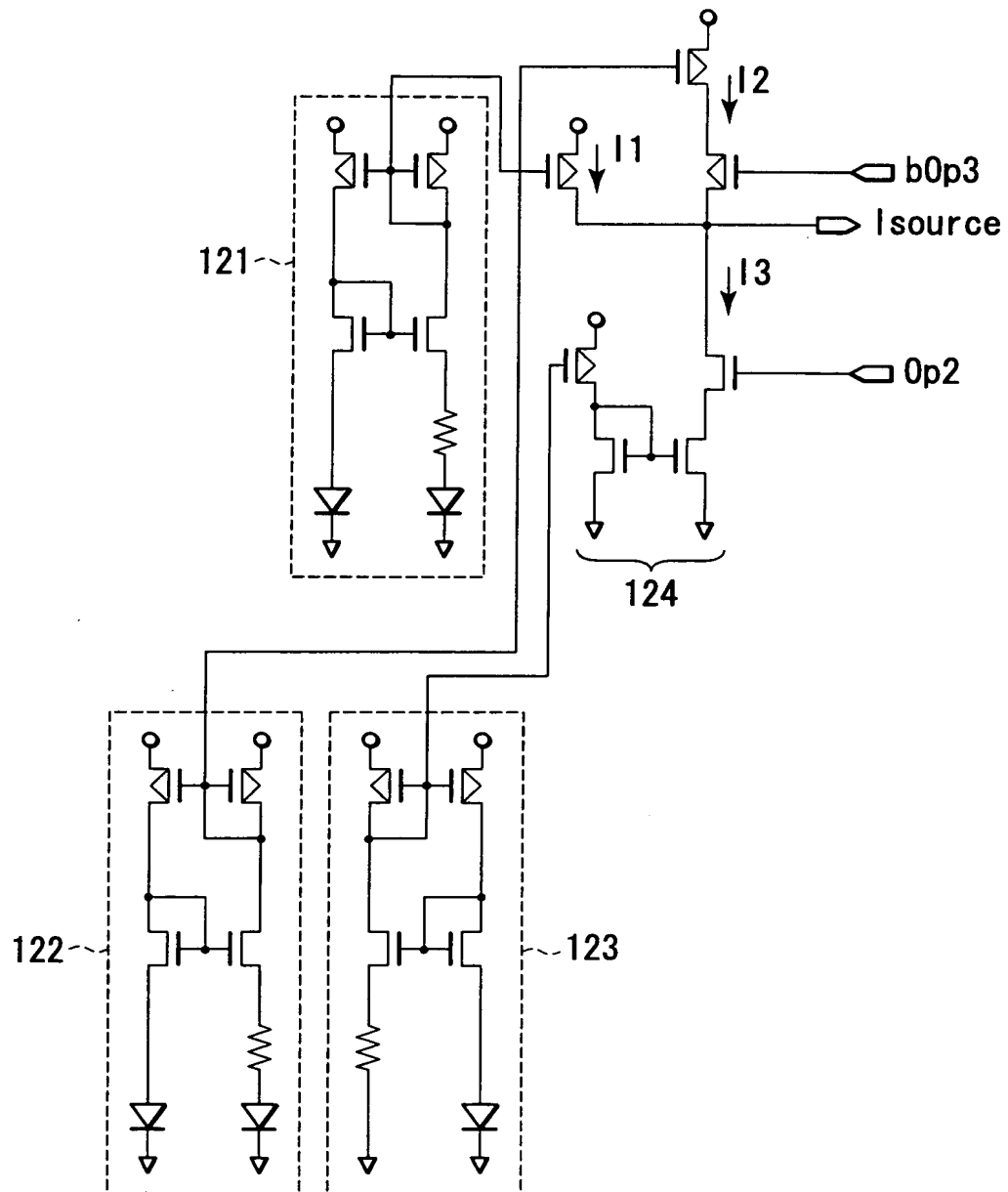


FIG. 50

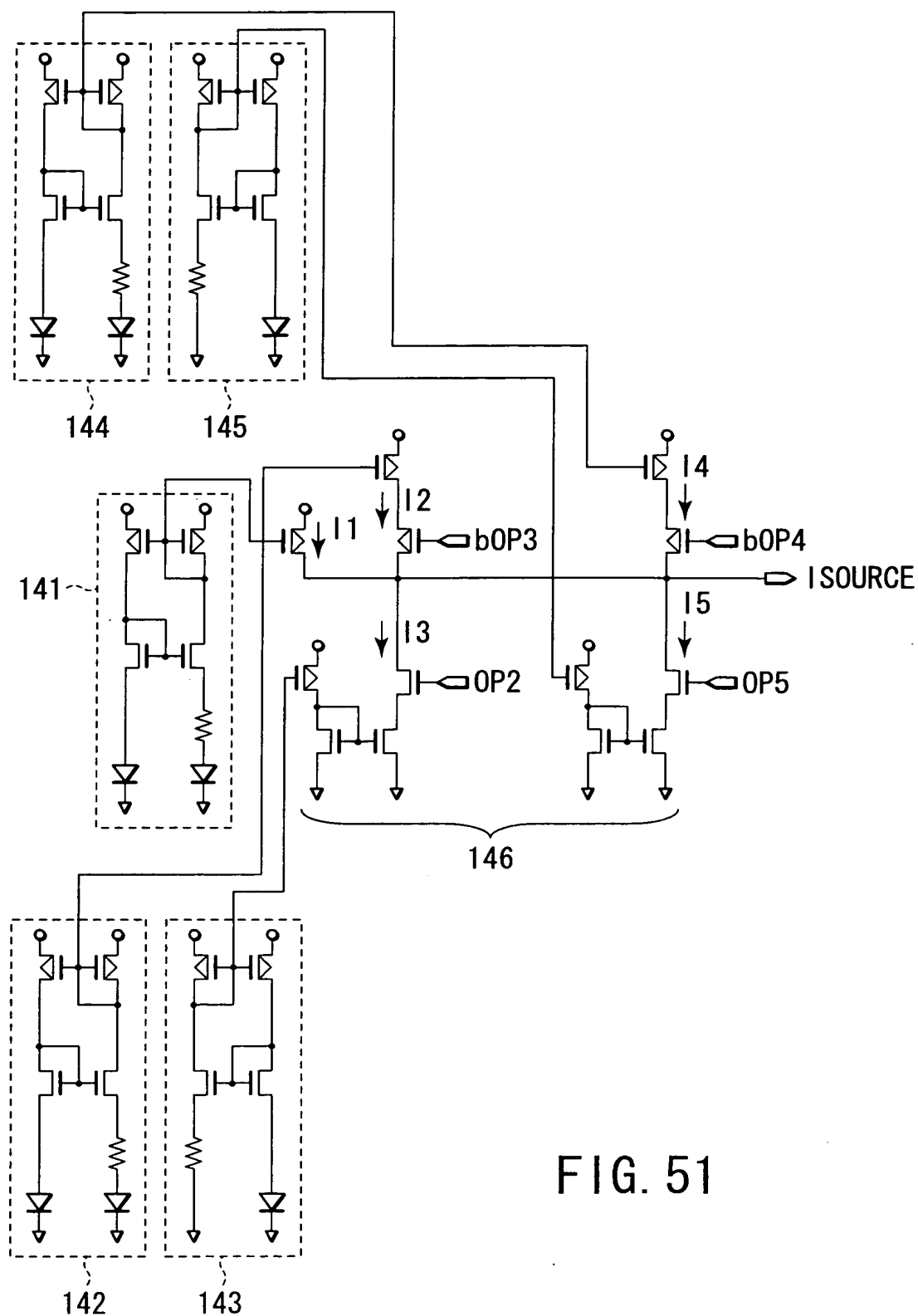
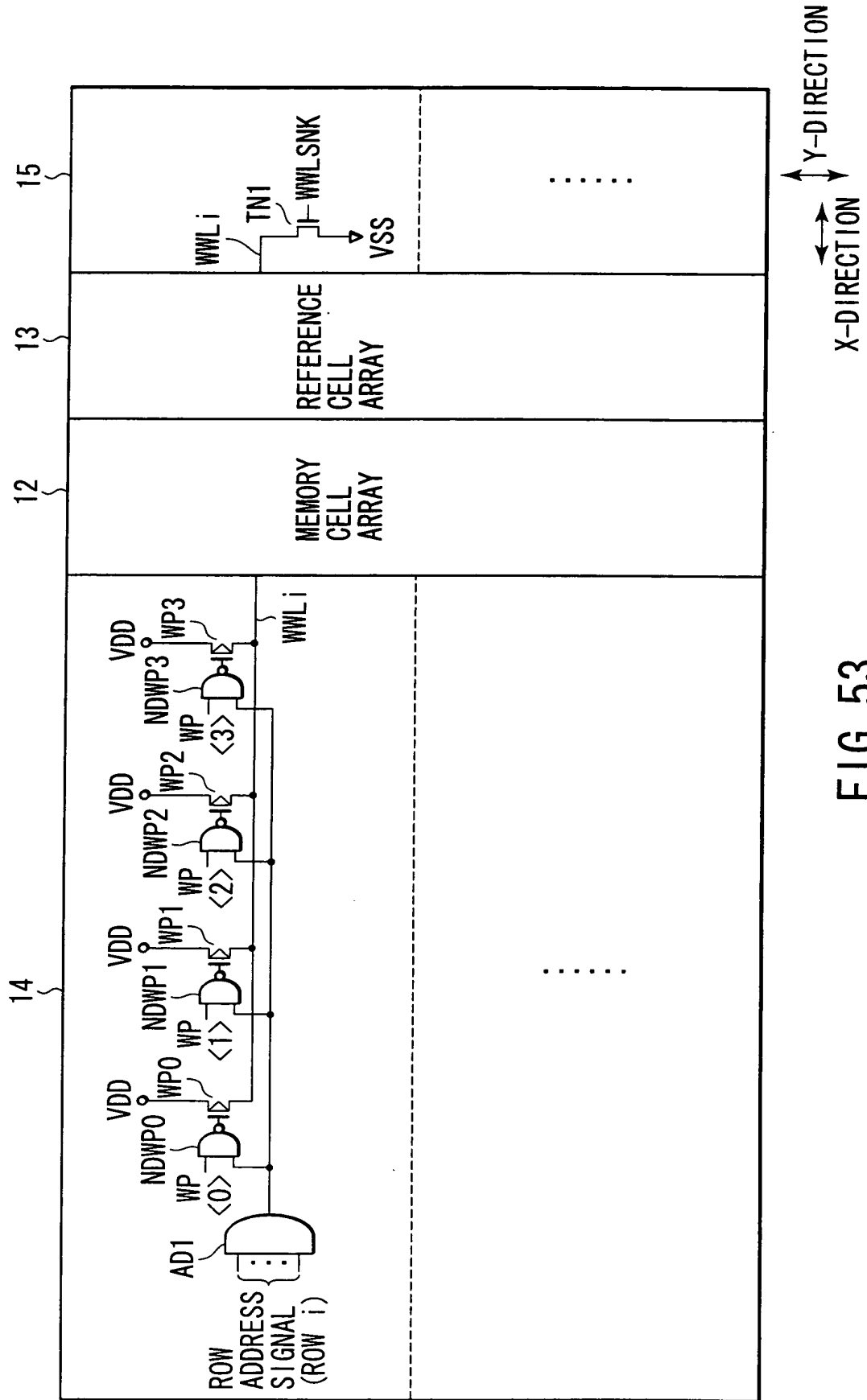


FIG. 51



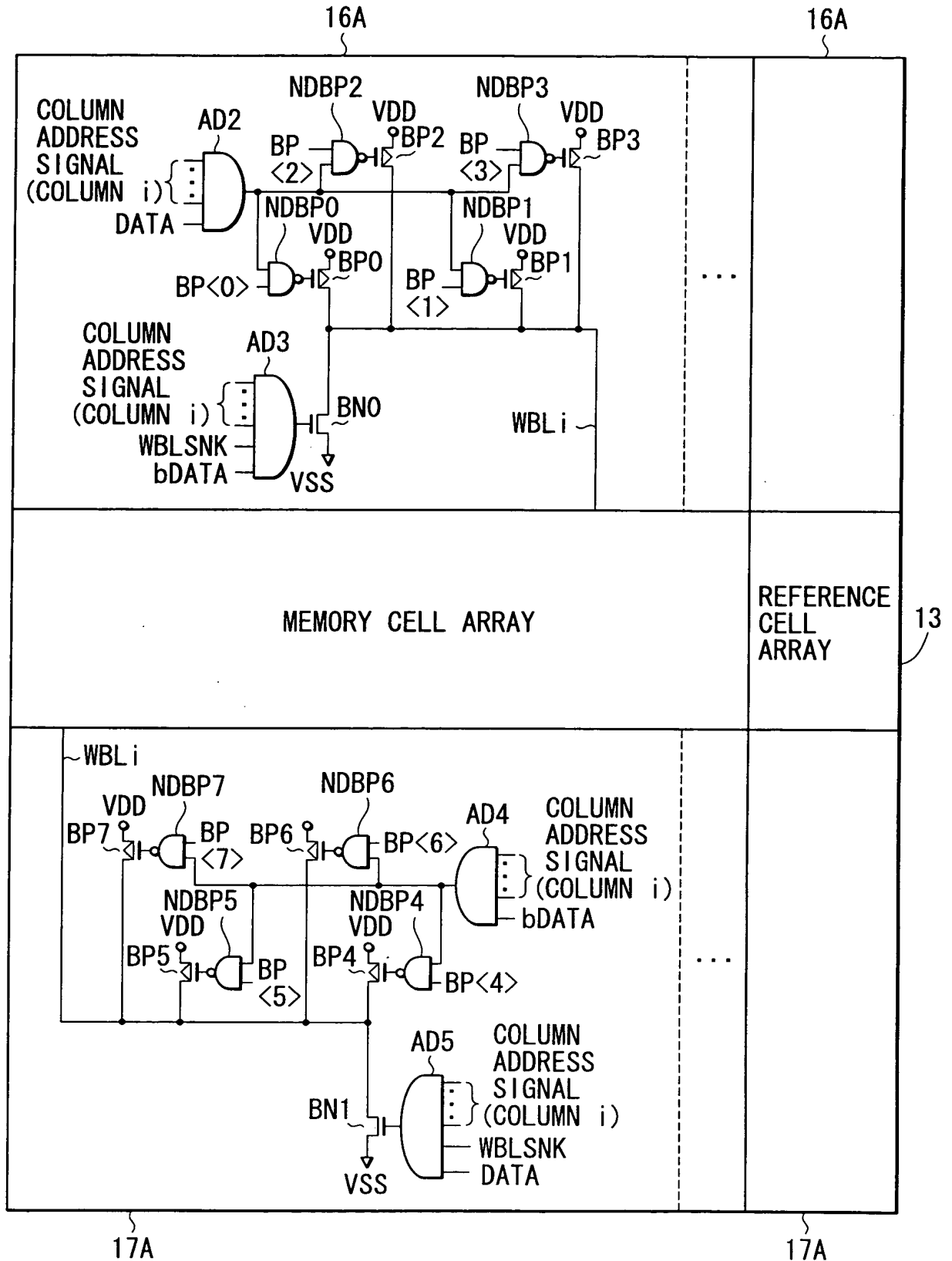


FIG. 54

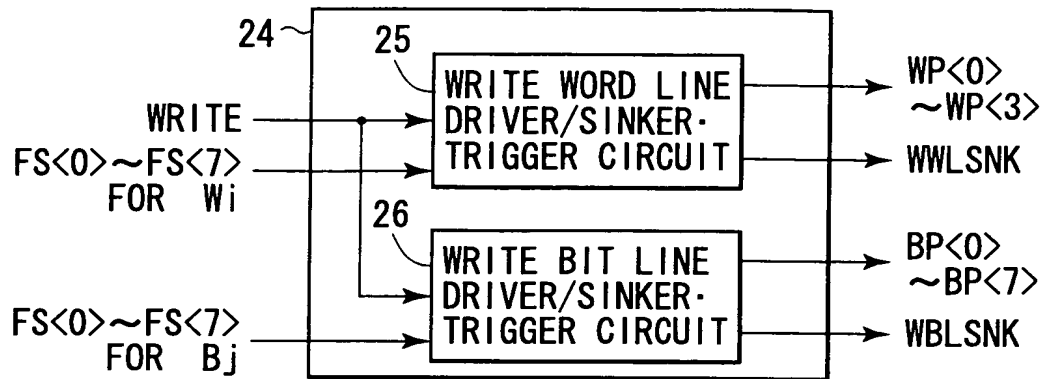


FIG. 55

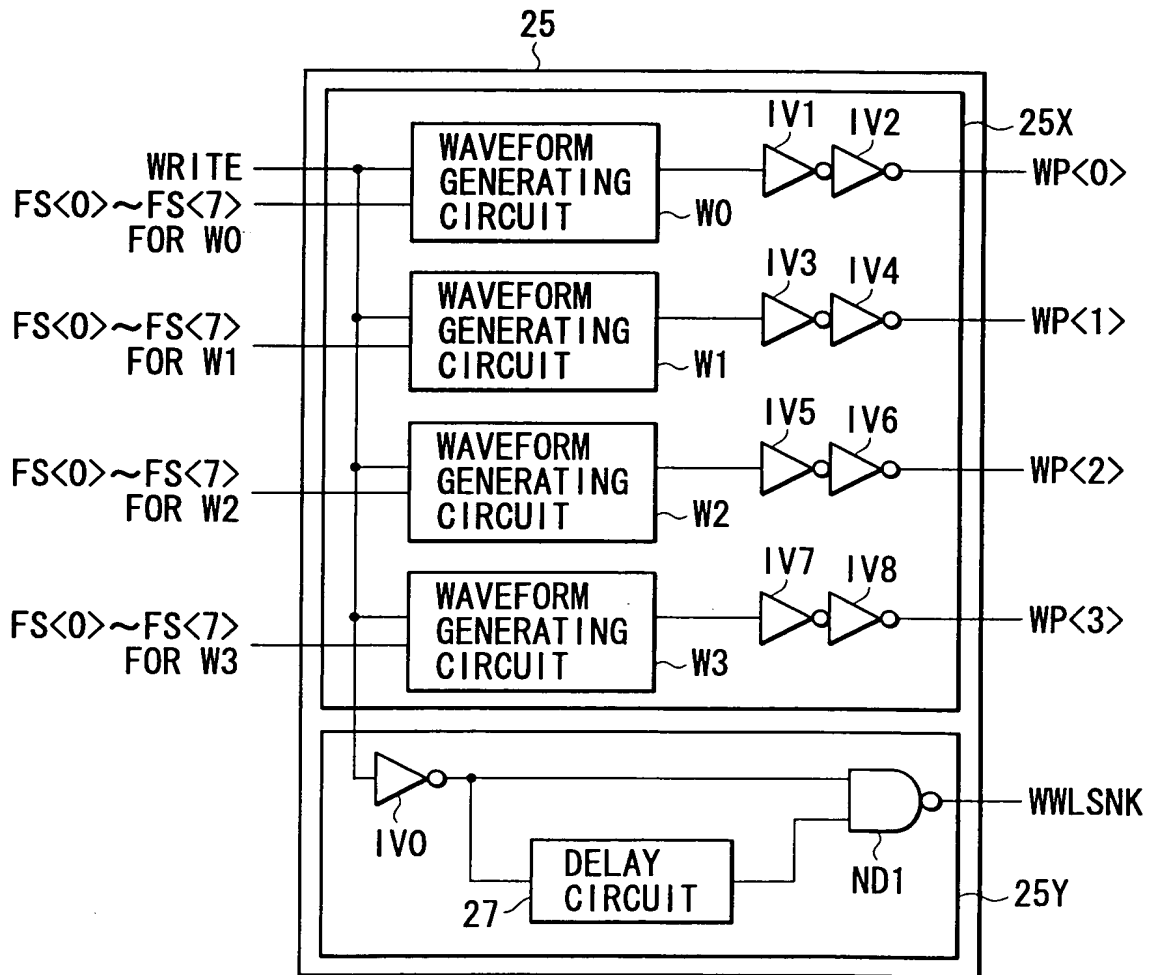


FIG. 56

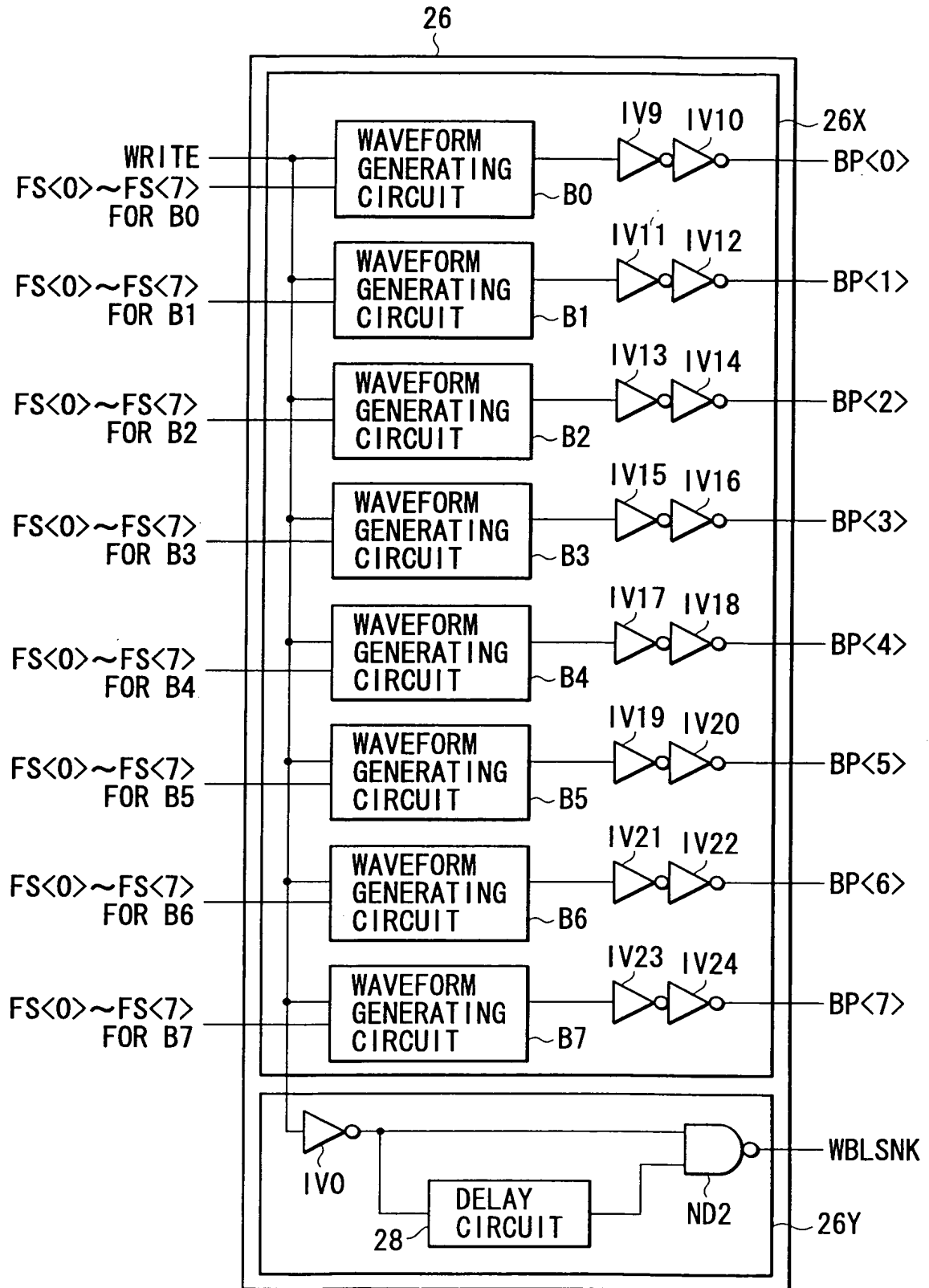


FIG. 57

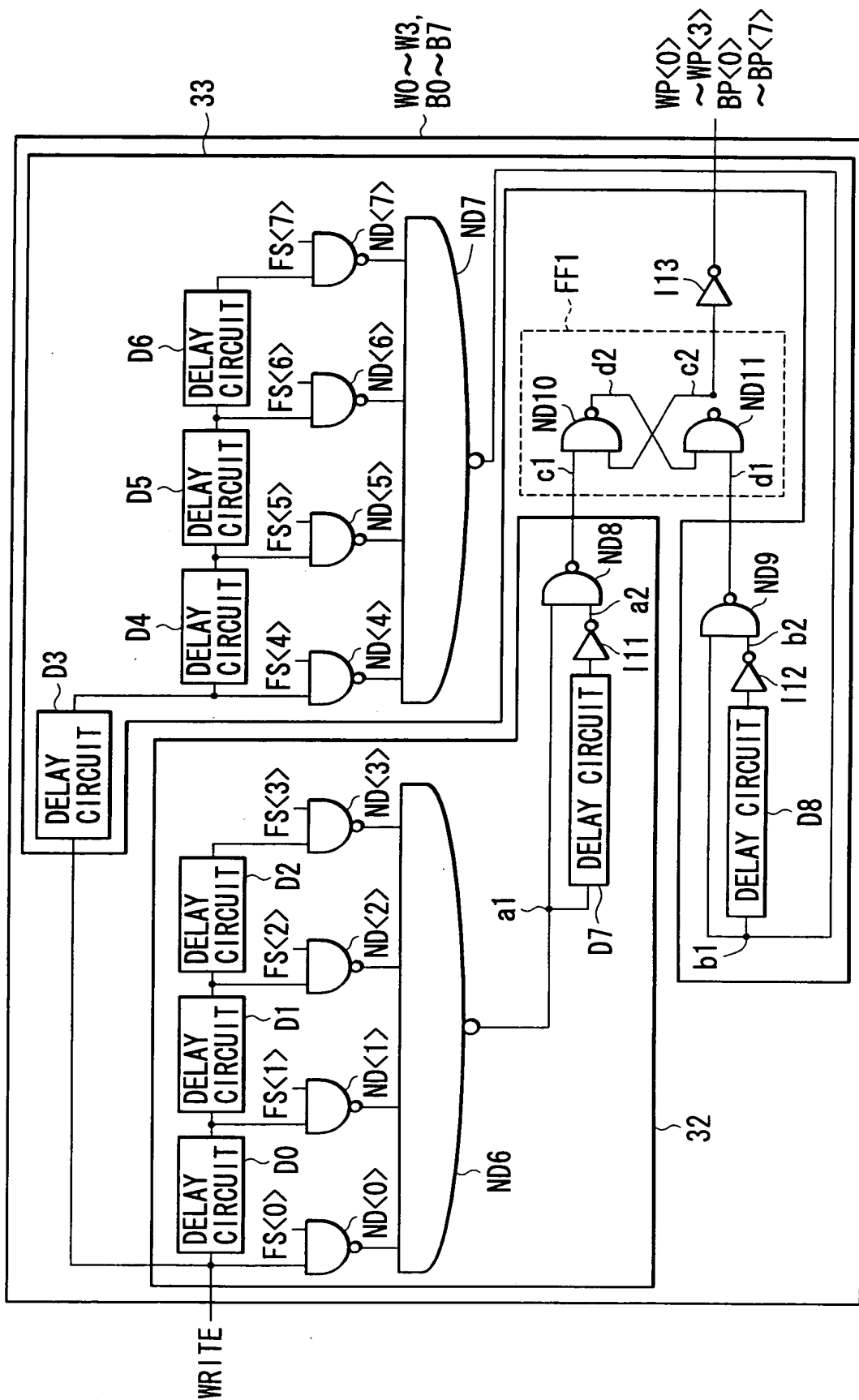


FIG. 58

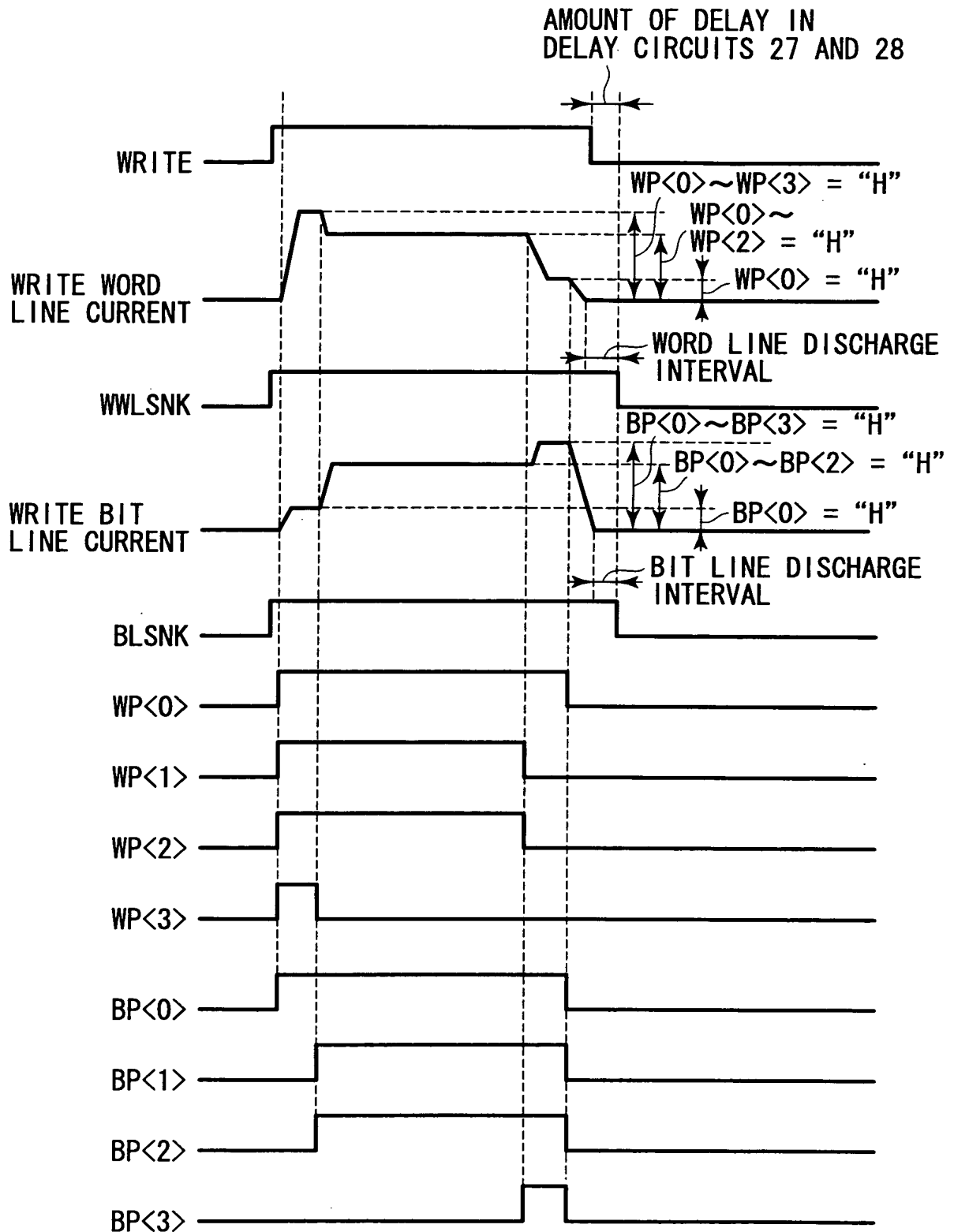


FIG. 59

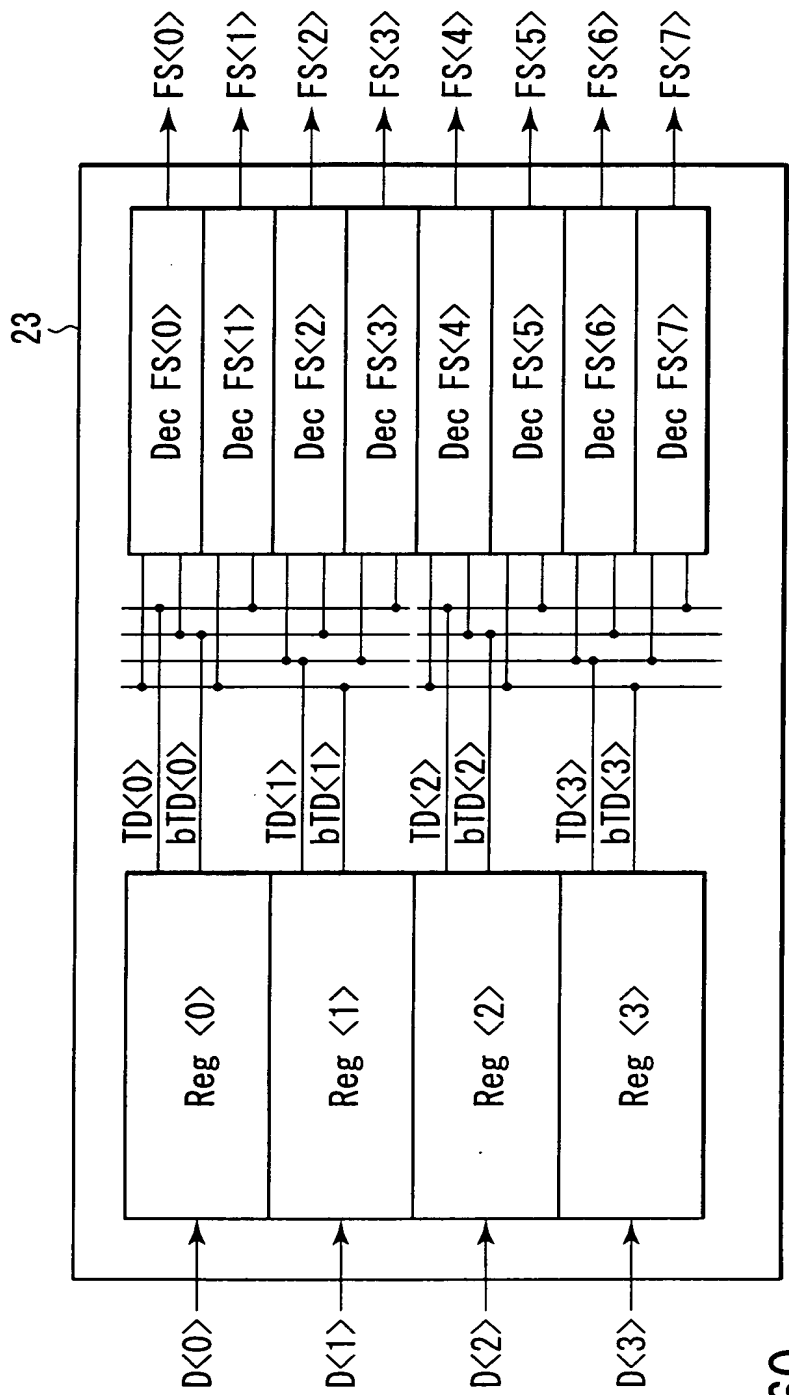


FIG. 60

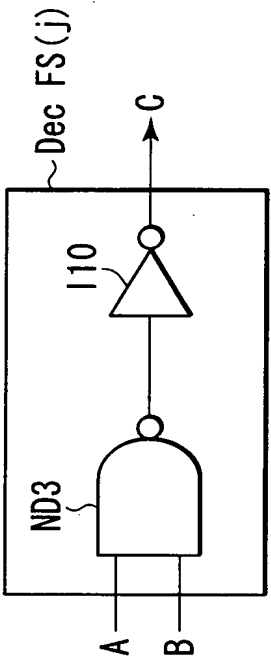


FIG. 61

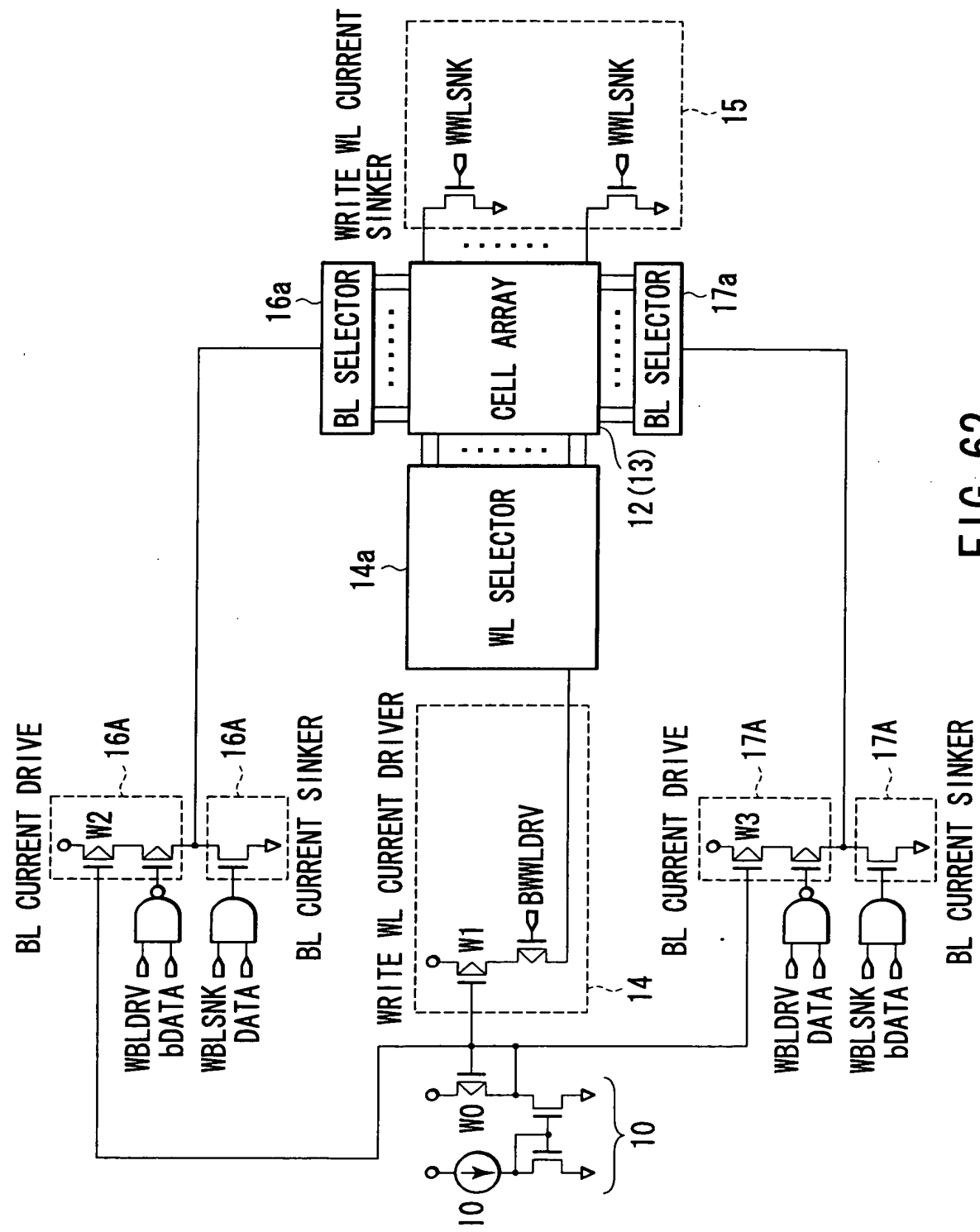


FIG. 62

A graph showing CURRENT on the vertical axis and TEMPERATURE on the horizontal axis. The graph contains several lines representing different current sources and load lines:

- Current Sources (Dashed Lines):**
 - $I_{\text{source}} (Opt1 = H)$: A dashed line with a negative slope.
 - $I_{\text{source}} (Opt1 = Opt2 = H)$: A dashed line with a negative slope, below the previous one.
 - $I_{\text{source}} (Opt2 = H)$: A dashed line with a negative slope, below the previous one.
- Load Lines (Solid Lines):**
 - I_1 : A solid line with a negative slope.
 - I_2 : A solid line with a positive slope.
 - I_3 : A solid line with a positive slope, below I_2 .

FIG. 64

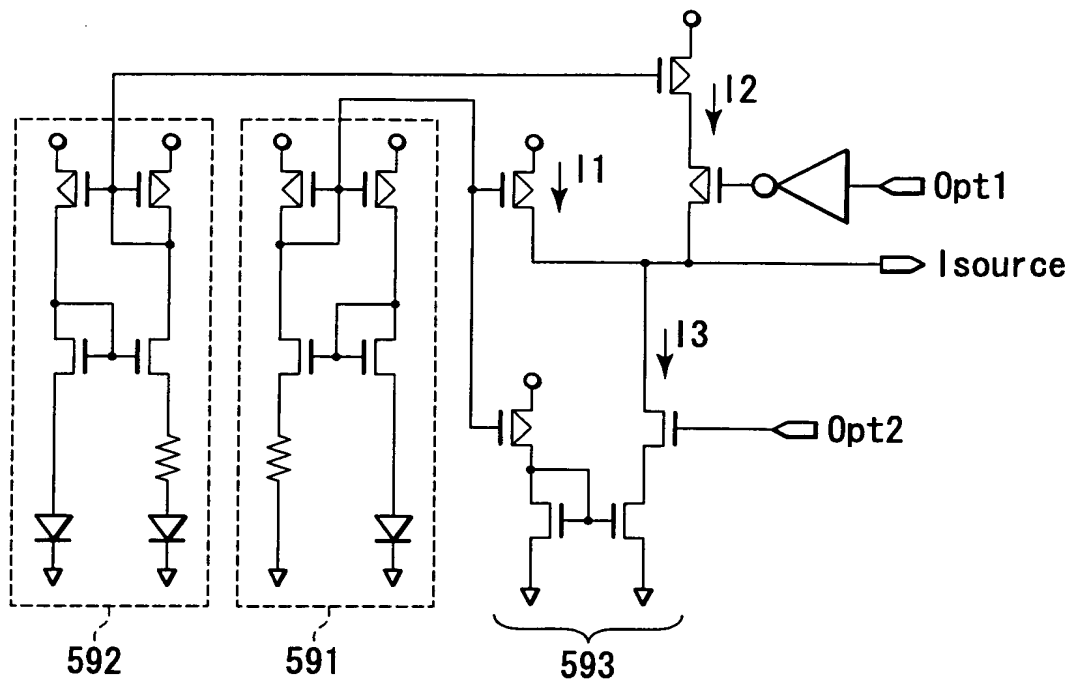


FIG. 65

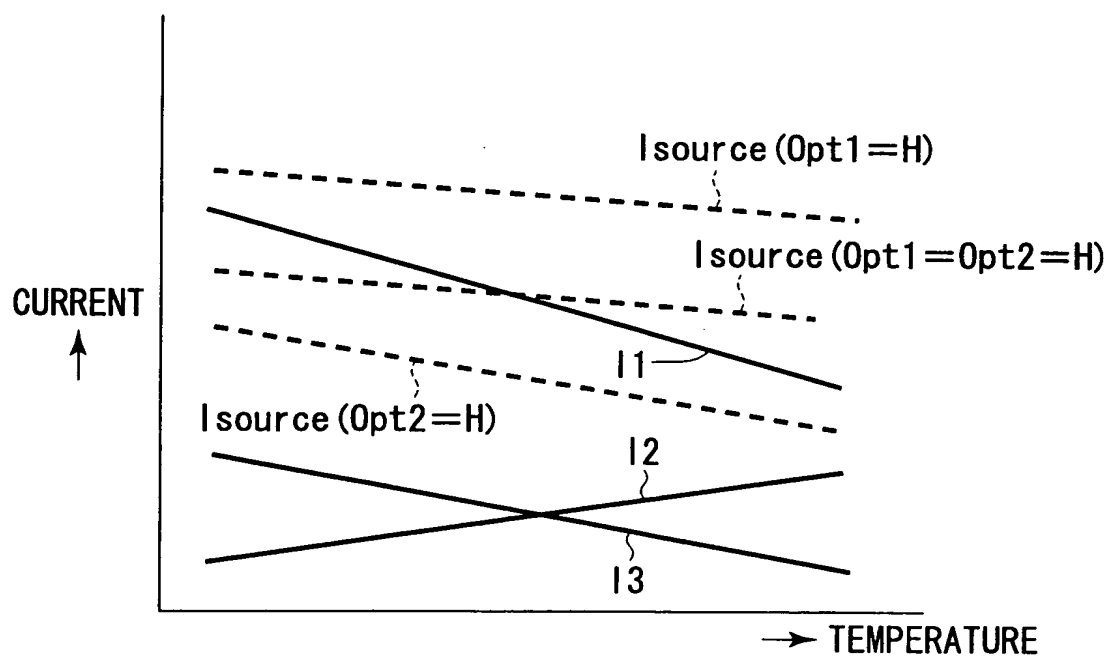


FIG. 66

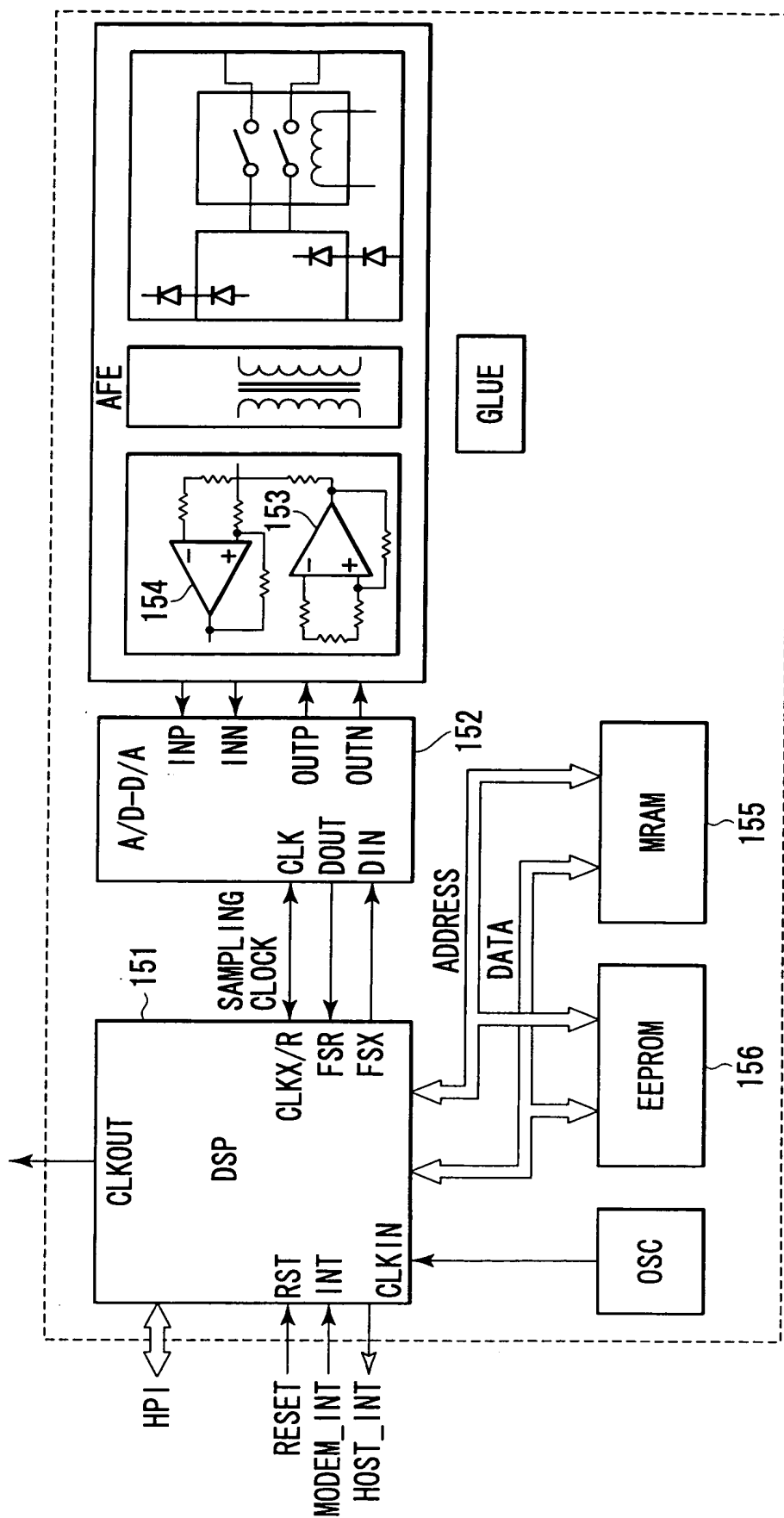


FIG. 67

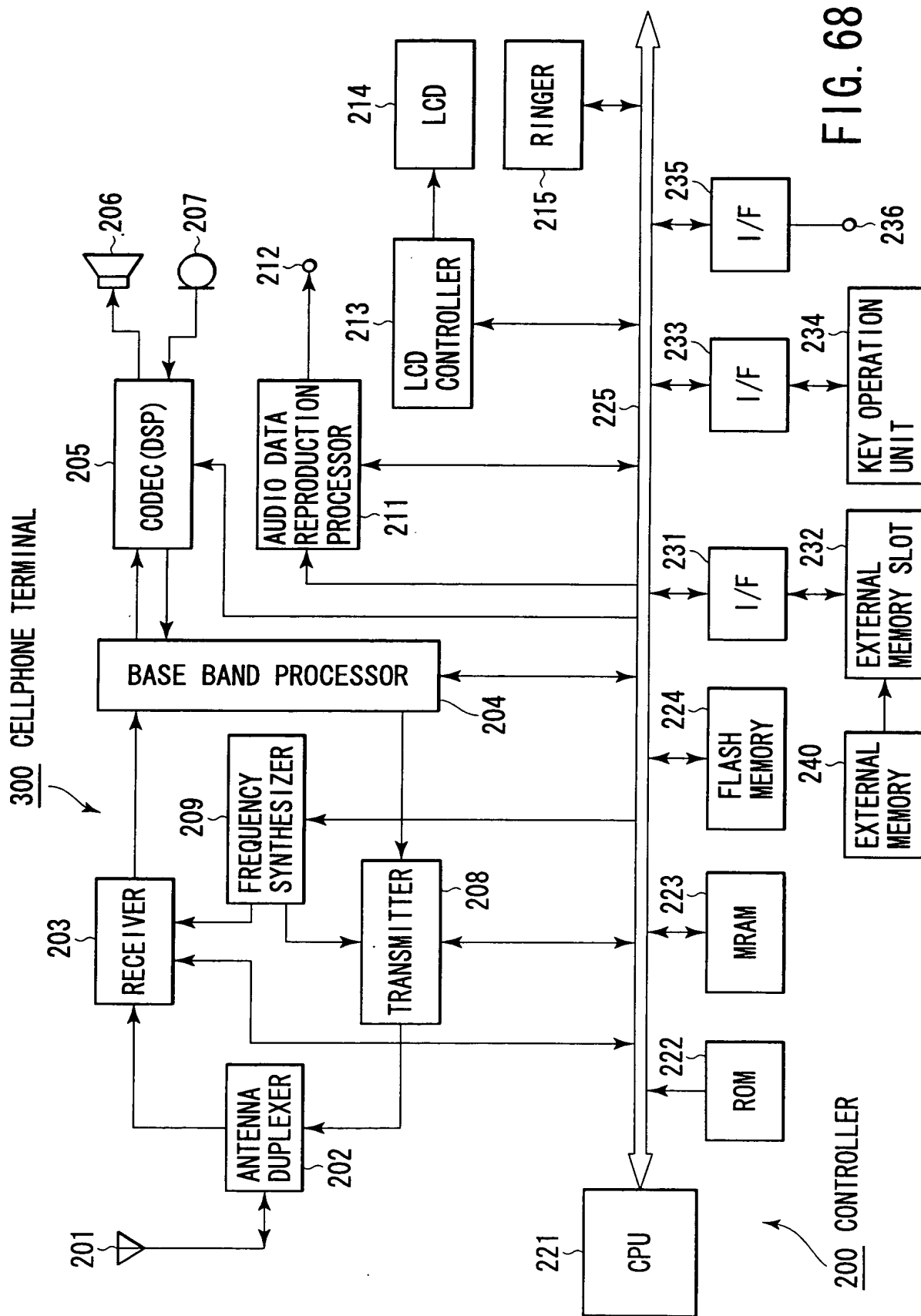


FIG. 68

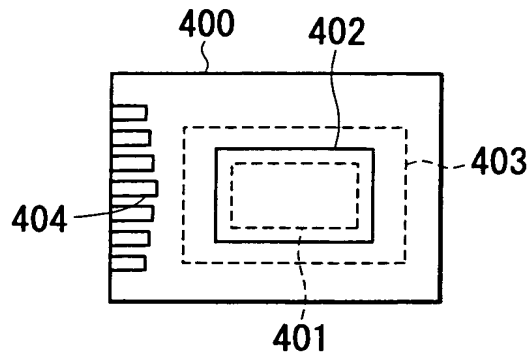


FIG. 69

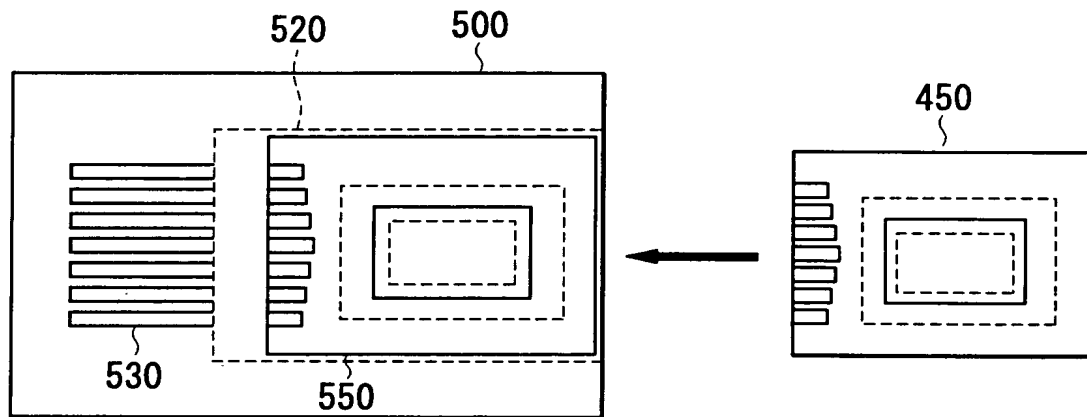
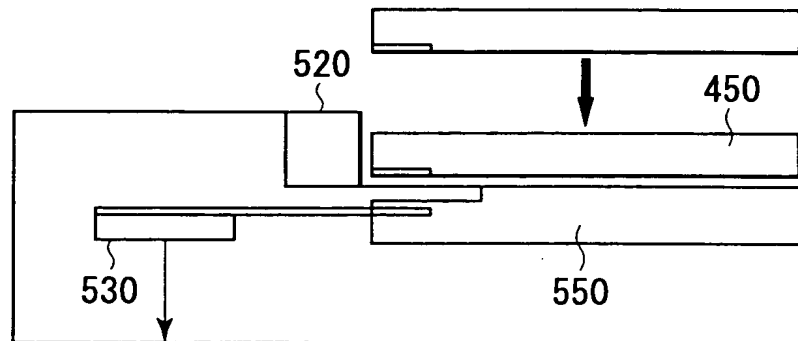


FIG. 70



TO FIRST MRAM DATA REWRITE CONTROLLER

FIG. 72

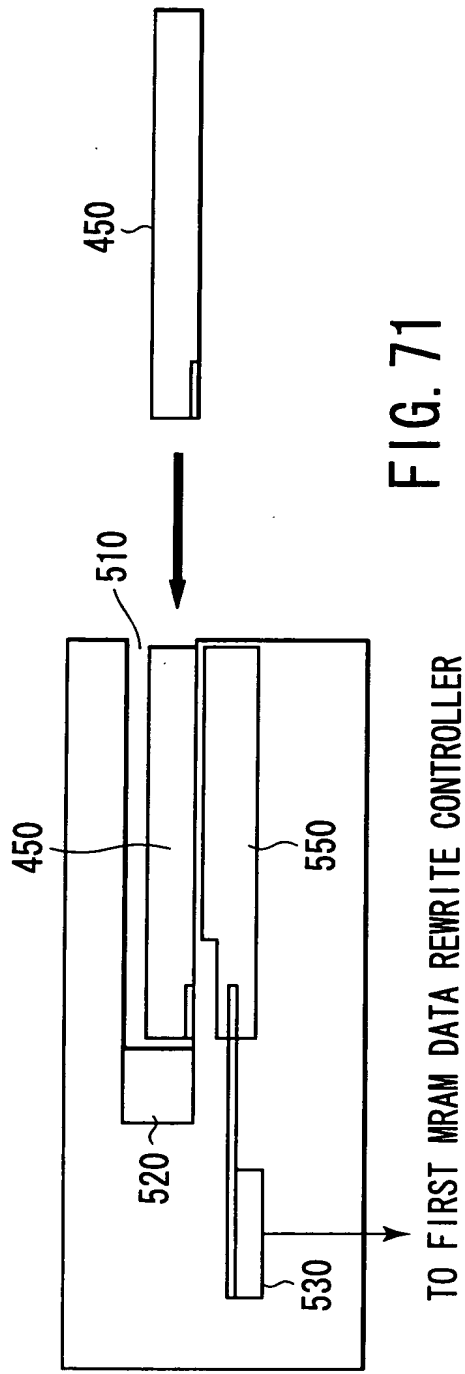


FIG. 71

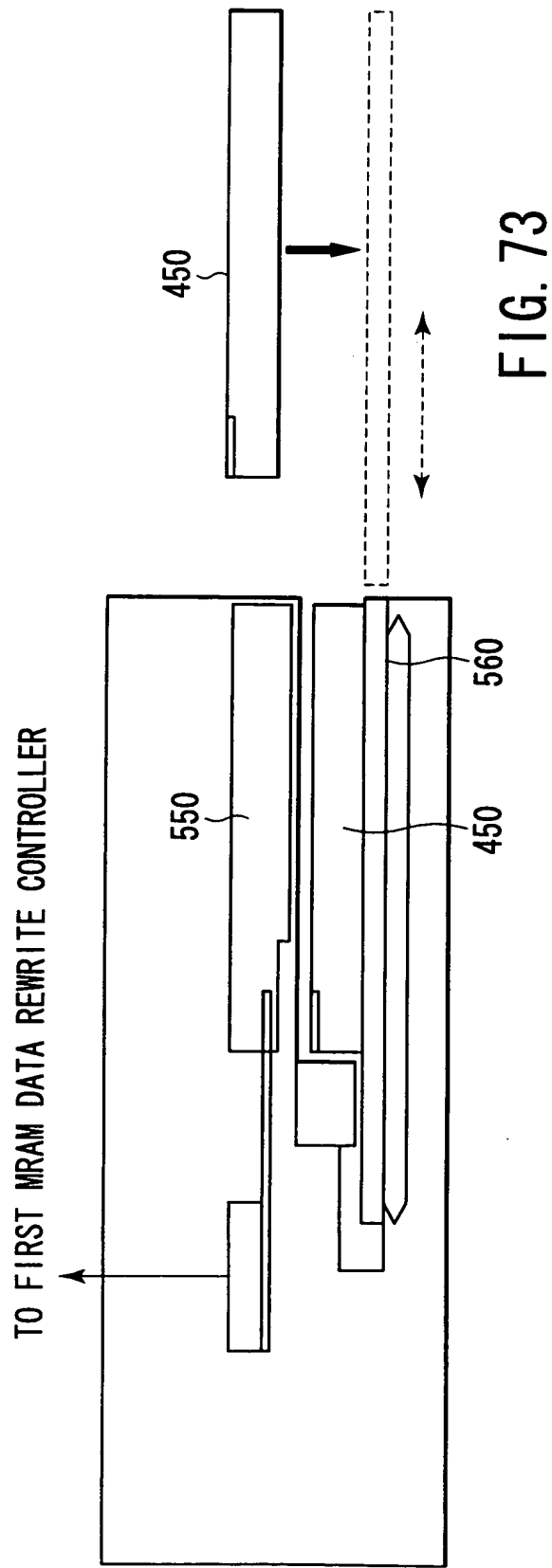


FIG. 73